

Konstantin V Korotkov

List of Publications by Citations

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64
papers

2,982
citations

31
h-index

54
g-index

72
ext. papers

3,419
ext. citations

6.7
avg, IF

5.16
L-index

#	Paper	IF	Citations
64	The type II secretion system: biogenesis, molecular architecture and mechanism. <i>Nature Reviews Microbiology</i> , 2012 , 10, 336-51	22.2	329
63	Crystal structure of the N-terminal domain of the secretin GspD from ETEC determined with the assistance of a nanobody. <i>Structure</i> , 2009 , 17, 255-65	5.2	148
62	Take five - Type VII secretion systems of Mycobacteria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014 , 1843, 1707-16	4.9	140
61	Mammalian selenoprotein in which selenocysteine (Sec) incorporation is supported by a new form of Sec insertion sequence element. <i>Molecular and Cellular Biology</i> , 2002 , 22, 1402-11	4.8	127
60	Structure-expression relationships of the 15-kDa selenoprotein gene. Possible role of the protein in cancer etiology. <i>Journal of Biological Chemistry</i> , 2000 , 275, 35540-7	5.4	127
59	Secretins: dynamic channels for protein transport across membranes. <i>Trends in Biochemical Sciences</i> , 2011 , 36, 433-43	10.3	126
58	Association between the 15-kDa selenoprotein and UDP-glucose:glycoprotein glucosyltransferase in the endoplasmic reticulum of mammalian cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 15330-6	5.4	125
57	Structure of the cholera toxin secretion channel in its closed state. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 1226-32	17.6	112
56	Structure of the GspK-GspI-GspJ complex from the enterotoxigenic Escherichia coli type 2 secretion system. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 462-8	17.6	108
55	Dual function of C/D box small nucleolar RNAs in rRNA modification and alternative pre-mRNA splicing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1625-34	11.5	107
54	The 1.6-Å crystal structure of the class of chaperones represented by Escherichia coli Hsp31 reveals a putative catalytic triad. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3137-42	11.5	100
53	Selenocysteine-containing thioredoxin reductase in C. elegans. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 259, 244-9	3.4	80
52	Structural and functional studies on the interaction of GspC and GspD in the type II secretion system. <i>PLoS Pathogens</i> , 2011 , 7, e1002228	7.6	74
51	Nematode selenoproteome: the use of the selenocysteine insertion system to decode one codon in an animal genome?. <i>Nucleic Acids Research</i> , 2005 , 33, 2227-38	20.1	70
50	Hsp31, the Escherichia coli yedU gene product, is a molecular chaperone whose activity is inhibited by ATP at high temperatures. <i>Journal of Biological Chemistry</i> , 2002 , 277, 46026-34	5.4	70
49	Nanobody-aided structure determination of the EpsI:EpsJ pseudopilin heterodimer from Vibrio vulnificus. <i>Journal of Structural Biology</i> , 2009 , 166, 8-15	3.4	66
48	ALS mutant SOD1 interacts with G3BP1 and affects stress granule dynamics. <i>Acta Neuropathologica</i> , 2016 , 132, 563-76	14.3	65

47	Structure of the Mycobacterium tuberculosis type VII secretion system chaperone EspG5 in complex with PE25-PPE41 dimer. <i>Molecular Microbiology</i> , 2014 , 94, 367-82	4.1	58
46	Assembly of the type II secretion system such as found in Vibrio cholerae depends on the novel Pilotin AspS. <i>PLoS Pathogens</i> , 2013 , 9, e1003117	7.6	50
45	Structural and functional studies of EpsC, a crucial component of the type 2 secretion system from Vibrio cholerae. <i>Journal of Molecular Biology</i> , 2006 , 363, 311-21	6.5	48
44	The three-dimensional structure of the cytoplasmic domains of EpsF from the type 2 secretion system of Vibrio cholerae. <i>Journal of Structural Biology</i> , 2009 , 166, 303-15	3.4	43
43	3,5-Substituted phenyl galactosides as leads in designing effective cholera toxin antagonists; synthesis and crystallographic studies. <i>Bioorganic and Medicinal Chemistry</i> , 2004 , 12, 907-20	3.4	41
42	Structure of the minor pseudopilin EpsH from the Type 2 secretion system of Vibrio cholerae. <i>Journal of Molecular Biology</i> , 2008 , 377, 91-103	6.5	40
41	Mycosins Are Required for the Stabilization of the ESX-1 and ESX-5 Type VII Secretion Membrane Complexes. <i>MBio</i> , 2016 , 7,	7.8	39
40	Calcium is essential for the major pseudopilin in the type 2 secretion system. <i>Journal of Biological Chemistry</i> , 2009 , 284, 25466-70	5.4	36
39	The crystal structure of a binary complex of two pseudopilins: EpsI and EpsJ from the type 2 secretion system of Vibrio vulnificus. <i>Journal of Molecular Biology</i> , 2008 , 375, 471-86	6.5	36
38	The binding of cholera toxin to the periplasmic vestibule of the type II secretion channel. <i>Channels</i> , 2011 , 5, 215-8	3	35
37	Structure of EspB, a secreted substrate of the ESX-1 secretion system of Mycobacterium tuberculosis. <i>Journal of Structural Biology</i> , 2015 , 191, 236-44	3.4	34
36	Understanding specificity of the mycosin proteases in ESX/type VII secretion by structural and functional analysis. <i>Journal of Structural Biology</i> , 2013 , 184, 115-28	3.4	33
35	Crystal structure of the full-length ATPase GspE from the Vibrio vulnificus type II secretion system in complex with the cytoplasmic domain of GspL. <i>Journal of Structural Biology</i> , 2014 , 187, 223-235	3.4	31
34	Structural biology and structure-based inhibitor design of cholera toxin and heat-labile enterotoxin. <i>International Journal of Medical Microbiology</i> , 2004 , 294, 217-23	3.7	31
33	Discovery of glycerol phosphate modification on streptococcal rhamnose polysaccharides. <i>Nature Chemical Biology</i> , 2019 , 15, 463-471	11.7	30
32	Structural and functional insights into the role of BamD and BamE within the E-barrel assembly machinery in. <i>Journal of Biological Chemistry</i> , 2018 , 293, 1106-1119	5.4	26
31	Architecture, Function, and Substrates of the Type II Secretion System. <i>EcoSal Plus</i> , 2019 , 8,	7.7	25
30	Crystal structure of the N-terminal domain of EccA ATPase from the ESX-1 secretion system of Mycobacterium tuberculosis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 159-63	4.2	23

29	Crystal structure and mutational analysis of the DaaE adhesin of Escherichia coli. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22367-22377	5.4	23
28	A new native EchHsp31 structure suggests a key role of structural flexibility for chaperone function. <i>Protein Science</i> , 2004 , 13, 269-77	6.3	23
27	Structures of EccB1 and EccD1 from the core complex of the mycobacterial ESX-1 type VII secretion system. <i>BMC Structural Biology</i> , 2016 , 16, 5	2.7	22
26	Oligomerization of EpsE coordinates residues from multiple subunits to facilitate ATPase activity. <i>Journal of Biological Chemistry</i> , 2011 , 286, 10378-86	5.4	22
25	The molecular mechanism of -acetylglucosamine side-chain attachment to the Lancefield group A carbohydrate in. <i>Journal of Biological Chemistry</i> , 2017 , 292, 19441-19457	5.4	20
24	Genetic and functional analysis of mammalian Sep15 selenoprotein. <i>Methods in Enzymology</i> , 2002 , 347, 187-97	1.7	20
23	Functional and structural characterization of Vibrio cholerae extracellular serine protease B, VesB. <i>Journal of Biological Chemistry</i> , 2014 , 289, 8288-98	5.4	18
22	The Pup-proteasome system regulates nitrate metabolism through an essential protein quality control pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3202-3210	11.5	17
21	Targeting phosphatases of regenerating liver (PRLs) in cancer. <i>Pharmacology & Therapeutics</i> , 2018 , 190, 128-138	13.9	17
20	Type VII Secretion Substrates of Pathogenic Mycobacteria Are Processed by a Surface Protease. <i>MBio</i> , 2019 , 10,	7.8	15
19	Functional and structural studies on the Neisseria gonorrhoeae GmhA, the first enzyme in the glycerol-manno-heptose biosynthesis pathways, demonstrate a critical role in lipooligosaccharide synthesis and gonococcal viability. <i>MicrobiologyOpen</i> , 2017 , 6, e00432	3.4	14
18	A dodecameric ring-like structure of the N0 domain of the type II secretin from enterotoxigenic Escherichia coli. <i>Journal of Structural Biology</i> , 2013 , 183, 354-362	3.4	14
17	Multiple levels of regulation of selenoprotein biosynthesis revealed from the analysis of human glioma cell lines. <i>Biochemical Pharmacology</i> , 2000 , 60, 489-97	6	13
16	Structural Variability of EspG Chaperones from Mycobacterial ESX-1, ESX-3, and ESX-5 Type VII Secretion Systems. <i>Journal of Molecular Biology</i> , 2019 , 431, 289-307	6.5	13
15	Novel mycosin protease MycP inhibitors identified by virtual screening and 4D fingerprints. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1166-73	6.1	11
14	Peptide Inhibitors Targeting the Neisseria gonorrhoeae Pivotal Anaerobic Respiration Factor AniA. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	10
13	Pentapeptide boronic acid inhibitors of Mycobacterium tuberculosis MycP1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 3546-8	2.9	10
12	Crystal structure of the pilotin from the enterohemorrhagic Escherichia coli type II secretion system. <i>Journal of Structural Biology</i> , 2013 , 182, 186-91	3.4	9

11	Screening a fragment cocktail library using ultrafiltration. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 1585-91	4.4	9
10	Application of the 4D fingerprint method with a robust scoring function for scaffold-hopping and drug repurposing strategies. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2834-45	6.1	8
9	Novel Antimycobacterial Compounds Suppress NAD Biogenesis by Targeting a Unique Pocket of NaMN Adenylyltransferase. <i>ACS Chemical Biology</i> , 2019 , 14, 949-958	4.9	7
8	PE5-PPE4-EspG heterotrimer structure from mycobacterial ESX-3 secretion system gives insight into cognate substrate recognition by ESX systems. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12706-12715	5.4	7
7	Structural analysis of mycobacterial homoserine transacetylases central to methionine biosynthesis reveals druggable active site. <i>Scientific Reports</i> , 2019 , 9, 20267	4.9	7
6	Modification of cell wall polysaccharide guides cell division in <i>Streptococcus mutans</i> . <i>Nature Chemical Biology</i> , 2021 , 17, 878-887	11.7	6
5	Targeting an Essential GTPase Obg for the Development of Broad-Spectrum Antibiotics. <i>PLoS ONE</i> , 2016 , 11, e0148222	3.7	6
4	SpyB, a Small Heme-Binding Protein, Affects the Composition of the Cell Wall in. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016 , 6, 126	5.9	5
3	PplD is a de-N-acetylase of the cell wall linkage unit of streptococcal rhamnopolysaccharides.. <i>Nature Communications</i> , 2022 , 13, 590	17.4	1
2	Discovery of glycerol phosphate modification on streptococcal rhamnose polysaccharides		1
1	Architecture, Function, and Substrates of the Type II Secretion System 2019 , 227-244		1