

# Konstantin V Korotkov

## List of Publications by Year in Descending Order

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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.

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	PplD is a de-N-acetylase of the cell wall linkage unit of streptococcal rhamnopolysaccharides.. <i>Nature Communications</i> , <b>2022</b> , 13, 590	17.4	1
63	Modification of cell wall polysaccharide guides cell division in <i>Streptococcus mutans</i> . <i>Nature Chemical Biology</i> , <b>2021</b> , 17, 878-887	11.7	6
62	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> , <b>2020</b> , 295, 12706-12715	5.15	7
61	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> , <b>2019</b> , 116, 3202-3210	11.5	17
60	Novel Antimycobacterial Compounds Suppress NAD Biogenesis by Targeting a Unique Pocket of NaMN Adenylyltransferase. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 949-958	4.9	7
59	Discovery of glycerol phosphate modification on streptococcal rhamnose polysaccharides. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 463-471	11.7	30
58	Architecture, Function, and Substrates of the Type II Secretion System. <i>EcoSal Plus</i> , <b>2019</b> , 8,	7.7	25
57	Architecture, Function, and Substrates of the Type II Secretion System <b>2019</b> , 227-244		1
56	Type VII Secretion Substrates of Pathogenic Mycobacteria Are Processed by a Surface Protease. <i>MBio</i> , <b>2019</b> , 10,	7.8	15
55	Structural analysis of mycobacterial homoserine transacetylases central to methionine biosynthesis reveals druggable active site. <i>Scientific Reports</i> , <b>2019</b> , 9, 20267	4.9	7
54	Structural Variability of EspG Chaperones from Mycobacterial ESX-1, ESX-3, and ESX-5 Type VII Secretion Systems. <i>Journal of Molecular Biology</i> , <b>2019</b> , 431, 289-307	6.5	13
53	Targeting phosphatases of regenerating liver (PRLs) in cancer. <i>Pharmacology &amp; Therapeutics</i> , <b>2018</b> , 190, 128-138	13.9	17
52	Structural and functional insights into the role of BamD and BamE within the E-barrel assembly machinery in. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 1106-1119	5.4	26
51	Functional and structural studies on the <i>Neisseria gonorrhoeae</i> GmhA, the first enzyme in the glycerol-manno-heptose biosynthesis pathways, demonstrate a critical role in lipooligosaccharide synthesis and gonococcal viability. <i>MicrobiologyOpen</i> , <b>2017</b> , 6, e00432	3.4	14
50	Peptide Inhibitors Targeting the <i>Neisseria gonorrhoeae</i> Pivotal Anaerobic Respiration Factor AniA. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2017</b> , 61,	5.9	10
49	The molecular mechanism of -acetylglucosamine side-chain attachment to the Lancefield group A carbohydrate in. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19441-19457	5.4	20
48	Mycosins Are Required for the Stabilization of the ESX-1 and ESX-5 Type VII Secretion Membrane Complexes. <i>MBio</i> , <b>2016</b> , 7,	7.8	39

47	Structures of EccB1 and EccD1 from the core complex of the mycobacterial ESX-1 type VII secretion system. <i>BMC Structural Biology</i> , <b>2016</b> , 16, 5	2.7	22
46	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> , <b>2016</b> , 113, E1625-34	11.5	107
45	SpyB, a Small Heme-Binding Protein, Affects the Composition of the Cell Wall in. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2016</b> , 6, 126	5.9	5
44	Targeting an Essential GTPase Opg for the Development of Broad-Spectrum Antibiotics. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148222	3.7	6
43	ALS mutant SOD1 interacts with G3BP1 and affects stress granule dynamics. <i>Acta Neuropathologica</i> , <b>2016</b> , 132, 563-76	14.3	65
42	Structure of EspB, a secreted substrate of the ESX-1 secretion system of Mycobacterium tuberculosis. <i>Journal of Structural Biology</i> , <b>2015</b> , 191, 236-44	3.4	34
41	Novel mycosin protease MycP inhibitors identified by virtual screening and 4D fingerprints. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 1166-73	6.1	11
40	Functional and structural characterization of Vibrio cholerae extracellular serine protease B, VesB. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 8288-98	5.4	18
39	Take five - Type VII secretion systems of Mycobacteria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2014</b> , 1843, 1707-16	4.9	140
38	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> , <b>2014</b> , 54, 2834-45	6.1	8
37	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> , <b>2014</b> , 187, 223-235	3.4	31
36	Pentapeptide boronic acid inhibitors of Mycobacterium tuberculosis MycP1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 3546-8	2.9	10
35	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> , <b>2014</b> , 82, 159-63	4.2	23
34	Structure of the Mycobacterium tuberculosis type VII secretion system chaperone EspG5 in complex with PE25-PPE41 dimer. <i>Molecular Microbiology</i> , <b>2014</b> , 94, 367-82	4.1	58
33	A dodecameric ring-like structure of the N0 domain of the type II secretin from enterotoxigenic Escherichia coli. <i>Journal of Structural Biology</i> , <b>2013</b> , 183, 354-362	3.4	14
32	Understanding specificity of the mycosin proteases in ESX/type VII secretion by structural and functional analysis. <i>Journal of Structural Biology</i> , <b>2013</b> , 184, 115-28	3.4	33
31	Crystal structure of the pilotin from the enterohemorrhagic Escherichia coli type II secretion system. <i>Journal of Structural Biology</i> , <b>2013</b> , 182, 186-91	3.4	9
30	Assembly of the type II secretion system such as found in Vibrio cholerae depends on the novel Pilotin AspS. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003117	7.6	50

29	The type II secretion system: biogenesis, molecular architecture and mechanism. <i>Nature Reviews Microbiology</i> , <b>2012</b> , 10, 336-51	22.2	329
28	Secretins: dynamic channels for protein transport across membranes. <i>Trends in Biochemical Sciences</i> , <b>2011</b> , 36, 433-43	10.3	126
27	Screening a fragment cocktail library using ultrafiltration. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 1585-91	4.4	9
26	The binding of cholera toxin to the periplasmic vestibule of the type II secretion channel. <i>Channels</i> , <b>2011</b> , 5, 215-8	3	35
25	Structural and functional studies on the interaction of GspC and GspD in the type II secretion system. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002228	7.6	74
24	Oligomerization of EpsE coordinates residues from multiple subunits to facilitate ATPase activity. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 10378-86	5.4	22
23	Structure of the cholera toxin secretion channel in its closed state. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 1226-32	17.6	112
22	Calcium is essential for the major pseudopilin in the type 2 secretion system. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 25466-70	5.4	36
21	Crystal structure of the N-terminal domain of the secretin GspD from ETEC determined with the assistance of a nanobody. <i>Structure</i> , <b>2009</b> , 17, 255-65	5.2	148
20	Nanobody-aided structure determination of the EpsI:EpsJ pseudopilin heterodimer from <i>Vibrio vulnificus</i> . <i>Journal of Structural Biology</i> , <b>2009</b> , 166, 8-15	3.4	66
19	The three-dimensional structure of the cytoplasmic domains of EpsF from the type 2 secretion system of <i>Vibrio cholerae</i> . <i>Journal of Structural Biology</i> , <b>2009</b> , 166, 303-15	3.4	43
18	Structure of the GspK-GspI-GspJ complex from the enterotoxigenic <i>Escherichia coli</i> type 2 secretion system. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 462-8	17.6	108
17	Structure of the minor pseudopilin EpsH from the Type 2 secretion system of <i>Vibrio cholerae</i> . <i>Journal of Molecular Biology</i> , <b>2008</b> , 377, 91-103	6.5	40
16	The crystal structure of a binary complex of two pseudopilins: EpsI and EpsJ from the type 2 secretion system of <i>Vibrio vulnificus</i> . <i>Journal of Molecular Biology</i> , <b>2008</b> , 375, 471-86	6.5	36
15	Crystal structure and mutational analysis of the DaaE adhesin of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 22367-22377	5.4	23
14	Structural and functional studies of EpsC, a crucial component of the type 2 secretion system from <i>Vibrio cholerae</i> . <i>Journal of Molecular Biology</i> , <b>2006</b> , 363, 311-21	6.5	48
13	Nematode selenoproteome: the use of the selenocysteine insertion system to decode one codon in an animal genome?. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 2227-38	20.1	70
12	3,5-Substituted phenyl galactosides as leads in designing effective cholera toxin antagonists; synthesis and crystallographic studies. <i>Bioorganic and Medicinal Chemistry</i> , <b>2004</b> , 12, 907-20	3.4	41

11	A new native Echsp31 structure suggests a key role of structural flexibility for chaperone function. <i>Protein Science</i> , <b>2004</b> , 13, 269-77	6.3	23
10	Structural biology and structure-based inhibitor design of cholera toxin and heat-labile enterotoxin. <i>International Journal of Medical Microbiology</i> , <b>2004</b> , 294, 217-23	3.7	31
9	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> , <b>2003</b> , 100, 3137-42	11.5	100
8	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> , <b>2002</b> , 277, 46026-34	5.4	70
7	Genetic and functional analysis of mammalian Sep15 selenoprotein. <i>Methods in Enzymology</i> , <b>2002</b> , 347, 187-97	1.7	20
6	Mammalian selenoprotein in which selenocysteine (Sec) incorporation is supported by a new form of Sec insertion sequence element. <i>Molecular and Cellular Biology</i> , <b>2002</b> , 22, 1402-11	4.8	127
5	Association between the 15-kDa selenoprotein and UDP-glucose:glycoprotein glucosyltransferase in the endoplasmic reticulum of mammalian cells. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 15330-6	5.4	125
4	Multiple levels of regulation of selenoprotein biosynthesis revealed from the analysis of human glioma cell lines. <i>Biochemical Pharmacology</i> , <b>2000</b> , 60, 489-97	6	13
3	Structure-expression relationships of the 15-kDa selenoprotein gene. Possible role of the protein in cancer etiology. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 35540-7	5.4	127
2	Selenocysteine-containing thioredoxin reductase in <i>C. elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 259, 244-9	3.4	80
1	Discovery of glycerol phosphate modification on streptococcal rhamnose polysaccharides		1