

# Jurgen Sygusch

## List of Publications by Year in descending order

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59  
papers

1,768  
citations

236833

25  
h-index

289141

40  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2109  
citing authors

#	ARTICLE	IF	CITATIONS
1	A "Drug Sweeping" State of the TriABC Triclosan Efflux Pump from <i>Pseudomonas aeruginosa</i> . <i>Structure</i> , 2021, 29, 261-274.e6.	1.6	11
2	Targeting a moonlighting function of aldolase induces apoptosis in cancer cells. <i>Cell Death and Disease</i> , 2019, 10, 712.	2.7	47
3	Fragment-based screening identifies inhibitors of ATPase activity and of hexamer formation of Cag $\beta$ from the <i>Helicobacter pylori</i> type IV secretion system. <i>Scientific Reports</i> , 2019, 9, 6474.	1.6	16
4	Active site remodeling during the catalytic cycle in metal-dependent fructose-1,6-bisphosphate aldolases. <i>Journal of Biological Chemistry</i> , 2018, 293, 7737-7753.	1.6	18
5	Bisphosphonate Inhibitors of Mammalian Glycolytic Aldolase. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 10558-10572.	2.9	8
6	MmpL3 as a Target for the Treatment of Drug-Resistant Nontuberculous Mycobacterial Infections. <i>Frontiers in Microbiology</i> , 2018, 9, 1547.	1.5	40
7	Analysis of Novel Interactions between Components of the Selenocysteine Biosynthesis Pathway, SEPHS1, SEPHS2, SEPSECS, and SECp43. <i>Biochemistry</i> , 2017, 56, 2261-2270.	1.2	20
8	Structural and Biochemical Characterization of Organotin and Organolead Compounds Binding to the Organomercurial Lyase MerB Provide New Insights into Its Mechanism of Carbon-Metal Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2017, 139, 910-921.	6.6	12
9	Isomer activation controls stereospecificity of class I fructose-1,6-bisphosphate aldolases. <i>Journal of Biological Chemistry</i> , 2017, 292, 19849-19860.	1.6	5
10	Three-Dimensional Architecture of the L-Type Calcium Channel: Structural Insights into the Ca $V$ 2 $\beta$ 1 Auxiliary Protein. <i>Biochemistry &amp; Molecular Biology Journal</i> , 2016, 02, .	0.3	7
11	Molecular Dynamics Simulations of Hydrophobic Matching in KcsA. <i>Biophysical Journal</i> , 2016, 110, 343a.	0.2	0
12	Structure-Function Profile of MmpL3, the Essential Mycolic Acid Transporter from <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2016, 2, 702-713.	1.8	86
13	Structural Analysis and Inhibition of TraE from the pKM101 Type IV Secretion System. <i>Journal of Biological Chemistry</i> , 2016, 291, 23817-23829.	1.6	38
14	Structural and Biochemical Characterization of a Copper-Binding Mutant of the Organomercurial Lyase MerB: Insight into the Key Role of the Active Site Aspartic Acid in Hg-Carbon Bond Cleavage and Metal Binding Specificity. <i>Biochemistry</i> , 2016, 55, 1070-1081.	1.2	15
15	Peptides Designed To Spatially Depict the Epstein-Barr Virus Major Virion Glycoprotein gp350 Neutralization Epitope Elicit Antibodies That Block Virus-Neutralizing Antibody 72A1 Interaction with the Native gp350 Molecule. <i>Journal of Virology</i> , 2015, 89, 4932-4941.	1.5	20
16	Maximal Activity of KcsA, Kirbac1.1 and Kir2.1 Channels are Differentially Regulated by Membrane Thickness. <i>Biophysical Journal</i> , 2014, 106, 543a.	0.2	0
17	A family portrait: structural comparison of the Whirly proteins from <i>Arabidopsis thaliana</i> and <i>Solanum tuberosum</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1207-1211.	0.7	17
18	A conserved lysine residue of plant Whirly proteins is necessary for higher order protein assembly and protection against DNA damage. <i>Nucleic Acids Research</i> , 2012, 40, 258-269.	6.5	48

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19	Identification of the Binding Site of Brucella VirB8 Interaction Inhibitors. <i>Chemistry and Biology</i> , 2012, 19, 1041-1048.	6.2	62
20	Crystal Structure of Reaction Intermediates in Pyruvate Class II Aldolase. <i>Journal of Biological Chemistry</i> , 2012, 287, 36208-36221.	1.6	30
21	Mannitol Bis-phosphate Based Inhibitors of Fructose 1,6-Bisphosphate Aldolases. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 804-808.	1.3	8
22	Glycolytic and Non-glycolytic Functions of Mycobacterium tuberculosis Fructose-1,6-bisphosphate Aldolase, an Essential Enzyme Produced by Replicating and Non-replicating Bacilli. <i>Journal of Biological Chemistry</i> , 2011, 286, 40219-40231.	1.6	69
23	Dramatic improvement of crystal quality for low-temperature-grown rabbit muscle aldolase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 595-600.	0.7	1
24	Crystal Structures of DNA-Whirly Complexes and Their Role in <i>Arabidopsis</i> Organelle Genome Repair. <i>Plant Cell</i> , 2010, 22, 1849-1867.	3.1	116
25	Structure of a Class I Tagatose-1,6-bisphosphate Aldolase. <i>Journal of Biological Chemistry</i> , 2010, 285, 21143-21152.	1.6	22
26	Mechanism of Aldolase Control of Sorting Nexin 9 Function in Endocytosis. <i>Journal of Biological Chemistry</i> , 2010, 285, 11983-11990.	1.6	32
27	Rational Design, Synthesis, and Evaluation of New Selective Inhibitors of Microbial Class II (Zinc) Tj ETQq1 1 0.784314 rgBT /Overlock	2.9	31
28	Crystal Structures of the Organomercurial Lyase MerB in Its Free and Mercury-bound Forms. <i>Journal of Biological Chemistry</i> , 2009, 284, 938-944.	1.6	49
29	Charge Stabilization and Entropy Reduction of Central Lysine Residues in Fructose-Bisphosphate Aldolase. <i>Biochemistry</i> , 2009, 48, 4528-4537.	1.2	21
30	Aldolase Is Essential for Energy Production and Bridging Adhesin-Actin Cytoskeletal Interactions during Parasite Invasion of Host Cells. <i>Cell Host and Microbe</i> , 2009, 5, 353-364.	5.1	110
31	Purification, crystallization and preliminary X-ray diffraction analysis of the Whirly domain of StWhy2 in complex with single-stranded DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 1056-1059.	0.7	4
32	Synthesis and Biochemical Evaluation of Selective Inhibitors of Class II Fructose Bisphosphate Aldolases: Towards New Synthetic Antibiotics. <i>Chemistry - A European Journal</i> , 2008, 14, 8521-8529.	1.7	28
33	Separate synthesis and evaluation of glucitol bis-phosphate and mannitol bis-phosphate, as competitive inhibitors of fructose bis-phosphate aldolases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 1735-1737.	1.0	12
34	A Hydrophobic Pocket in the Active Site of Glycolytic Aldolase Mediates Interactions with Wiskott-Aldrich Syndrome Protein. <i>Journal of Biological Chemistry</i> , 2007, 282, 14309-14315.	1.6	26
35	Stereospecific Proton Transfer by a Mobile Catalyst in Mammalian Fructose-1,6-bisphosphate Aldolase. <i>Journal of Biological Chemistry</i> , 2007, 282, 31028-31037.	1.6	27
36	Carboxy-Terminus Recruitment Induced by Substrate Binding in Eukaryotic Fructose Bis-phosphate Aldolases. <i>Biochemistry</i> , 2007, 46, 9533-9540.	1.2	11

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37	Selective Irreversible Inhibition of Fructose 1,6-Bisphosphate Aldolase from <i>Trypanosoma brucei</i> . <i>Journal of Medicinal Chemistry</i> , 2006, 49, 1499-1502.	2.9	37
38	High Resolution Reaction Intermediates of Rabbit Muscle Fructose-1,6-bisphosphate Aldolase. <i>Journal of Biological Chemistry</i> , 2005, 280, 27262-27270.	1.6	59
39	Hydroxynaphthaldehyde Phosphate Derivatives as Potent Covalent Schiff Base Inhibitors of Fructose-1,6-bisphosphate Aldolase. <i>Biochemistry</i> , 2005, 44, 5430-5443.	1.2	18
40	Induced Fit Movements and Metal Cofactor Selectivity of Class II Aldolases. <i>Journal of Biological Chemistry</i> , 2004, 279, 11825-11833.	1.6	34
41	Purification, crystallization and preliminary X-ray analysis of native and selenomethionine class I tagatose-1,6-bisphosphate aldolase from <i>Streptococcus pyogenes</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 528-530.	2.5	2
42	A Conserved Glutamate Residue Exhibits Multifunctional Catalytic Roles in d-Fructose-1,6-bisphosphate Aldolases. <i>Journal of Biological Chemistry</i> , 2002, 277, 9474-9483.	1.6	42
43	Crystallization and preliminary X-ray crystallographic analysis of p24, a component of the potato nuclear factor PBF-2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 296-298.	2.5	6
44	A new family of plant transcription factors displays a novel ssDNA-binding surface. <i>Nature Structural Biology</i> , 2002, 9, 512-517.	9.7	90
45	Molecular Cloning, Expression, Purification, and Characterization of Fructose-1,6-bisphosphate Aldolase from <i>Thermus aquaticus</i> . <i>Protein Expression and Purification</i> , 2001, 21, 293-302.	0.6	27
46	Crystallization and preliminary X-ray analysis of native and selenomethionine fructose-1,6-bisphosphate aldolase from <i>Thermus aquaticus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 310-313.	2.5	4
47	Mosaic spread analysis of Canadian advanced protein crystallization experiment on the Russian space station, Mir. <i>Journal of Crystal Growth</i> , 2001, 232, 520-535.	0.7	8
48	Expression, Purification, and Characterization of Natural Mutants of Human Aldolase B. <i>Journal of Biological Chemistry</i> , 2000, 275, 1145-1151.	1.6	40
49	Magnetic space shuttle experiments. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 194, 96-101.	1.0	2
50	Alteration of substrate specificity by a naturally-occurring aldolase B mutation (Ala337 $\rightarrow$ Val) in fructose intolerance. <i>Biochemical Journal</i> , 1999, 340, 321-327.	1.7	15
51	Alteration of substrate specificity by a naturally-occurring aldolase B mutation (Ala337 $\rightarrow$ Val) in fructose intolerance. <i>Biochemical Journal</i> , 1999, 340, 321.	1.7	6
52	Inhibition of rabbit muscle aldolase by phosphorylated aromatic compounds. <i>Biochemical Journal</i> , 1997, 323, 71-77.	1.7	39
53	Subunit interaction in mammalian aldolases. <i>Biochemical Journal</i> , 1997, 323, 671-676.	1.7	3
54	Allosteric communication in mammalian muscle aldolase. <i>Biochemical Journal</i> , 1997, 327, 717-720.	1.7	14

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55	Product binding and role of the C-terminal region in Class I D-fructose 1, 6-bisphosphate aldolase. Nature Structural and Molecular Biology, 1997, 4, 36-39.	3.6	108
56	High resolution fast quantitative docking using fourier domain correlation techniques. Proteins: Structure, Function and Bioinformatics, 1997, 27, 493-506.	1.5	30
57	Functional Characterization of an Extreme Thermophilic Class II Fructose-1,6-Bisphosphate Aldolase. FEBS Journal, 1996, 241, 243-248.	0.2	19
58	Protein crystallization in low gravity by step gradient diffusion method. Journal of Crystal Growth, 1996, 162, 167-172.	0.7	18
59	Novel active site in Escherichia coli fructose 1,6-bisphosphate aldolase. Nature Structural and Molecular Biology, 1996, 3, 856-862.	3.6	80