List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/747863/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	High-Precision Isothermal Titration Calorimetry with Automated Peak-Shape Analysis. Analytical Chemistry, 2012, 84, 5066-5073.	6.5	440
2	Calculations and Publication-Quality Illustrations for Analytical Ultracentrifugation Data. Methods in Enzymology, 2015, 562, 109-133.	1.0	414
3	Structural and functional insights provided by crystal structures of DNA polymerases and their substrate complexes. Current Opinion in Structural Biology, 1998, 8, 54-63.	5.7	353
4	The Cytosolic DNA Sensor cGAS Forms an Oligomeric Complex with DNA and Undergoes Switch-like Conformational Changes in the Activation Loop. Cell Reports, 2014, 6, 421-430.	6.4	351
5	Ubiquitin-Induced Oligomerization of the RNA Sensors RIG-I and MDA5 Activates Antiviral Innate Immune Response. Immunity, 2012, 36, 959-973.	14.3	337
6	Structure of the photolyase-like domain of cryptochrome 1 from Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12142-12147.	7.1	267
7	Requirements for Efficient Correction of ΔF508 CFTR Revealed by Analyses of Evolved Sequences. Cell, 2012, 148, 164-174.	28.9	243
8	A TOG:αβ-tubulin Complex Structure Reveals Conformation-Based Mechanisms for a Microtubule Polymerase. Science, 2012, 337, 857-860.	12.6	226
9	Integration and global analysis of isothermal titration calorimetry data for studying macromolecular interactions. Nature Protocols, 2016, 11, 882-894.	12.0	225
10	Structural principles for the inhibition of the 3′-5′ exonuclease activity of Escherichia coli DNA polymerase I by phosphorothioates. Journal of Molecular Biology, 1998, 277, 363-377.	4.2	197
11	Hierarchical Regulation of WASP/WAVE Proteins. Molecular Cell, 2008, 32, 426-438.	9.7	188
12	Arp2/3 complex is bound and activated by two WASP proteins. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E472-9.	7.1	180
13	Side chain and backbone contributions of Phe508 to CFTR folding. Nature Structural and Molecular Biology, 2005, 12, 10-16.	8.2	173
14	Structural basis of histone demethylation by LSD1 revealed by suicide inactivation. Nature Structural and Molecular Biology, 2007, 14, 535-539.	8.2	170
15	High-precision, automated integration of multiple isothermal titration calorimetric thermograms: New features of NITPIC. Methods, 2015, 76, 87-98.	3.8	155
16	Overview of Current Methods in Sedimentation Velocity and Sedimentation Equilibrium Analytical Ultracentrifugation. Current Protocols in Protein Science, 2013, 71, Unit20.12.	2.8	154
17	On the acquisition and analysis of microscale thermophoresis data. Analytical Biochemistry, 2016, 496, 79-93.	2.4	130
18	Rac1 GTPase activates the WAVE regulatory complex through two distinct binding sites. ELife, 2017, 6, .	6.0	129

#	Article	IF	CITATIONS
19	Structure and ligand-binding mechanism of the human OX1 and OX2 orexin receptors. Nature Structural and Molecular Biology, 2016, 23, 293-299.	8.2	114
20	Crystal Structure of Human Dihydrolipoamide Dehydrogenase: NAD+/NADH Binding and the Structural Basis of Disease-causing Mutations. Journal of Molecular Biology, 2005, 350, 543-552.	4.2	110
21	Recorded scan times can limit the accuracy of sedimentation coefficients in analytical ultracentrifugation. Analytical Biochemistry, 2013, 437, 104-108.	2.4	102
22	SAV1 promotes Hippo kinase activation through antagonizing the PP2A phosphatase STRIPAK. ELife, 2017, 6, .	6.0	100
23	A tethered delivery mechanism explains the catalytic action of a microtubule polymerase. ELife, 2014, 3, e03069.	6.0	94
24	Structural basis of arrestin-3 activation and signaling. Nature Communications, 2017, 8, 1427.	12.8	92
25	Structural Insight into Interactions between Dihydrolipoamide Dehydrogenase (E3) and E3 Binding Protein of Human Pyruvate Dehydrogenase Complex. Structure, 2006, 14, 611-621.	3.3	90
26	Structural Basis for Autoactivation of Human Mst2 Kinase and Its Regulation by RASSF5. Structure, 2013, 21, 1757-1768.	3.3	82
27	Autoinhibition of Munc18-1 modulates synaptobrevin binding and helps to enable Munc13-dependent regulation of membrane fusion. ELife, 2017, 6, .	6.0	80
28	Structural determinants of nuclear export signal orientation in binding to exportin CRM1. ELife, 2015, 4, .	6.0	79
29	Structures of Normal Single-Stranded DNA and Deoxyribo-3â€~-S-phosphorothiolates Bound to the 3â€~-5â€~ Exonucleolytic Active Site of DNA Polymerase I from Escherichia coli,. Biochemistry, 1999, 38, 696-704.	2.5	77
30	Kinetic and Structural Insights into the Mechanism of AMPylation by VopS Fic Domain. Journal of Biological Chemistry, 2010, 285, 20155-20163.	3.4	77
31	Structural Analysis of Xanthomonas XopD Provides Insights into Substrate Specificity of Ubiquitin-like Protein Proteases. Journal of Biological Chemistry, 2007, 282, 6773-6782.	3.4	71
32	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	2.5	71
33	Fitting two- and three-site binding models to isothermal titration calorimetric data. Methods, 2015, 76, 124-136.	3.8	66
34	Structural basis for activation and non-canonical catalysis of the Rap GTPase activating protein domain of plexin. ELife, 2013, 2, e01279.	6.0	66
35	The human SKA complex drives the metaphase-anaphase cell cycle transition by recruiting protein phosphatase 1 to kinetochores. ELife, 2016, 5, .	6.0	64
36	Structure of the human cohesin inhibitor Wapl. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11355-11360.	7.1	62

#	Article	IF	CITATIONS
37	S. aureus MscL Is a Pentamer In Vivo but of Variable Stoichiometries In Vitro: Implications for Detergent-Solubilized Membrane Proteins. PLoS Biology, 2010, 8, e1000555.	5.6	60
38	Improving the thermal, radial, and temporal accuracy of the analytical ultracentrifuge through external references. Analytical Biochemistry, 2013, 440, 81-95.	2.4	60
39	Changes at the KinA PAS-A Dimerization Interface Influence Histidine Kinase Function [,] . Biochemistry, 2008, 47, 4051-4064.	2.5	59
40	Localization and Structure of the Ankyrin-binding Site on β2-Spectrin. Journal of Biological Chemistry, 2009, 284, 6982-6987.	3.4	59
41	Structural and Molecular Characterization of Iron-sensing Hemerythrin-like Domain within F-box and Leucine-rich Repeat Protein 5 (FBXL5). Journal of Biological Chemistry, 2012, 287, 7357-7365.	3.4	59
42	Subunit and Catalytic Component Stoichiometries of an in Vitro Reconstituted Human Pyruvate Dehydrogenase Complex. Journal of Biological Chemistry, 2009, 284, 13086-13098.	3.4	57
43	Mechanism of actin filament nucleation by the bacterial effector VopL. Nature Structural and Molecular Biology, 2011, 18, 1068-1074.	8.2	56
44	The Cdc20-binding Phe Box of the Spindle Checkpoint Protein BubR1 Maintains the Mitotic Checkpoint Complex During Mitosis. Journal of Biological Chemistry, 2015, 290, 2431-2443.	3.4	56
45	The PnrA (Tp0319; TmpC) Lipoprotein Represents a New Family of Bacterial Purine Nucleoside Receptor Encoded within an ATP-binding Cassette (ABC)-like Operon in Treponema pallidum. Journal of Biological Chemistry, 2006, 281, 8072-8081.	3.4	53
46	RIM C2B Domains Target Presynaptic Active Zone Functions to PIP2-Containing Membranes. Neuron, 2018, 98, 335-349.e7.	8.1	52
47	Multivalent di-nucleosome recognition enables the Rpd3S histone deacetylase complex to tolerate decreased H3K36 methylation levels. EMBO Journal, 2012, 31, 3564-3574.	7.8	49
48	Importin-9 wraps around the H2A-H2B core to act as nuclear importer and histone chaperone. ELife, 2019, 8, .	6.0	47
49	A Versatile Conformational Switch Regulates Reactivity in Human Branched-Chain α-Ketoacid Dehydrogenase. Structure, 2006, 14, 287-298.	3.3	46
50	Crystal Structure of the Tp34 (TP0971) Lipoprotein of Treponema pallidum. Journal of Biological Chemistry, 2007, 282, 5944-5958.	3.4	46
51	Design principles of a microtubule polymerase. ELife, 2018, 7, .	6.0	45
52	A synchronized substrate-gating mechanism revealed by cubic-core structure of the bovine branched-chain α-ketoacid dehydrogenase complex. EMBO Journal, 2006, 25, 5983-5994.	7.8	44
53	Structure analyses reveal a regulated oligomerization mechanism of the PlexinD1/GIPC/myosin VI complex. ELife, 2017, 6, .	6.0	44
54	Haemophilus ducreyi Hfq Contributes to Virulence Gene Regulation as Cells Enter Stationary Phase. MBio, 2014, 5, e01081-13.	4.1	42

#	Article	IF	CITATIONS
55	Fucosylated Molecules Competitively Interfere with Cholera Toxin Binding to Host Cells. ACS Infectious Diseases, 2018, 4, 758-770.	3.8	42
56	Using Lamm-Equation modeling of sedimentation velocity data to determine the kinetic and thermodynamic properties of macromolecular interactions. Methods, 2011, 54, 4-15.	3.8	40
57	Determination of protein complex stoichiometry through multisignal sedimentation velocity experiments. Analytical Biochemistry, 2010, 407, 89-103.	2.4	39
58	Evidence for an ABC-Type Riboflavin Transporter System in Pathogenic Spirochetes. MBio, 2013, 4, e00615-12.	4.1	38
59	Mechanistic insight into TRIP13-catalyzed Mad2 structural transition and spindle checkpoint silencing. Nature Communications, 2017, 8, 1956.	12.8	38
60	Structural and Biochemical Basis for Polyamine Binding to the Tp0655 Lipoprotein of Treponema pallidum: Putative Role for Tp0655 (TpPotD) as a Polyamine Receptor. Journal of Molecular Biology, 2007, 373, 681-694.	4.2	37
61	Characterization of the CpxRA Regulon in <i>Haemophilus ducreyi</i> . Infection and Immunity, 2010, 78, 4779-4791.	2.2	37
62	Cryo-EM analyses reveal the common mechanism and diversification in the activation of RET by different ligands. ELife, 2019, 8, .	6.0	37
63	Structural Evidence That the 32-Kilodalton Lipoprotein (Tp32) of Treponema pallidum Is an l-Methionine-binding Protein. Journal of Biological Chemistry, 2004, 279, 55644-55650.	3.4	36
64	An isolated CLASP TOG domain suppresses microtubule catastrophe and promotes rescue. Molecular Biology of the Cell, 2018, 29, 1359-1375.	2.1	36
65	Identification of Gene Products Involved in the Oxidative Stress Response of <i>Moraxella catarrhalis</i> . Infection and Immunity, 2011, 79, 745-755.	2.2	35
66	Mechanism of karyopherin-β2 binding and nuclear import of ALS variants FUS(P525L) and FUS(R495X). Scientific Reports, 2021, 11, 3754.	3.3	35
67	Structural elucidation of the binding and inhibitory properties of lanthanide (III) ions at the 3'-5' exonucleolytic active site of the Klenow fragment. Chemistry and Biology, 1999, 6, 901-908.	6.0	34
68	A Proximal Arginine R206 Participates in Switching of the Bradyrhizobium japonicum FixL Oxygen Sensor. Journal of Molecular Biology, 2006, 360, 80-89.	4.2	33
69	Evidence for Posttranslational Protein Flavinylation in the Syphilis Spirochete Treponema pallidum: Structural and Biochemical Insights from the Catalytic Core of a Periplasmic Flavin-Trafficking Protein. MBio, 2015, 6, e00519-15.	4.1	32
70	Tetramerization and ATP Binding by a Protein Comprising the A, B, and C Domains of Rat Synapsin I. Journal of Biological Chemistry, 2004, 279, 11948-11956.	3.4	31
71	Bifunctional NMN Adenylyltransferase/ADP-Ribose Pyrophosphatase: Structure and Function in Bacterial NAD Metabolism. Structure, 2008, 16, 196-209.	3.3	30
72	Evaluating the stoichiometry of macromolecular complexes using multisignal sedimentation velocity. Methods, 2011, 54, 39-55.	3.8	30

5

#	Article	IF	CITATIONS
73	Structural, Bioinformatic, and In Vivo Analyses of Two Treponema pallidum Lipoproteins Reveal a Unique TRAP Transporter. Journal of Molecular Biology, 2012, 416, 678-696.	4.2	30
74	The TP0796 Lipoprotein of Treponema pallidum Is a Bimetal-dependent FAD Pyrophosphatase with a Potential Role in Flavin Homeostasis. Journal of Biological Chemistry, 2013, 288, 11106-11121.	3.4	29
75	<i>Moraxella catarrhalis</i> Expresses an Unusual Hfq Protein. Infection and Immunity, 2008, 76, 2520-2530.	2.2	28
76	Molecular insights into the enzymatic diversity of flavinâ€trafficking protein (Ftp; formerly ApbE) in flavoprotein biogenesis in the bacterial periplasm. MicrobiologyOpen, 2016, 5, 21-38.	3.0	28
77	Structural and Mutational Analysis of Functional Differentiation between Synaptotagmins-1 and -7. PLoS ONE, 2010, 5, e12544.	2.5	28
78	Structural and Thermodynamic Characterization of the Interaction between Two Periplasmic Treponema pallidum Lipoproteins that are Components of a TPR-Protein-Associated TRAP Transporter (TPAT). Journal of Molecular Biology, 2012, 420, 70-86.	4.2	27
79	Using two-site binding models to analyze microscale thermophoresis data. Analytical Biochemistry, 2018, 540-541, 64-75.	2.4	27
80	Structural and Thermodynamic Basis for Weak Interactions between Dihydrolipoamide Dehydrogenase and Subunit-binding Domain of the Branched-chain α-Ketoacid Dehydrogenase Complex. Journal of Biological Chemistry, 2011, 286, 23476-23488.	3.4	23
81	Recognition of nuclear export signals by CRM1 carrying the oncogenic E571K mutation. Molecular Biology of the Cell, 2020, 31, 1879-1891.	2.1	22
82	Sequence, biophysical, and structural analyses of the PstS lipoprotein (BB0215) from <i>Borrelia burgdorferi</i> reveal a likely binding component of an ABCâ€ŧype phosphate transporter. Protein Science, 2014, 23, 200-212.	7.6	21
83	Structural and Biochemical Characterization of Human Mitochondrial Branched-chain α-Ketoacid Dehydrogenase Phosphatase. Journal of Biological Chemistry, 2012, 287, 9178-9192.	3.4	19
84	Secondary PDZ domain-binding site on class B plexins enhances the affinity for PDZ–RhoGEF. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14852-14857.	7.1	19
85	Multi-Signal Sedimentation Velocity Analysis with Mass Conservation for Determining the Stoichiometry of Protein Complexes. PLoS ONE, 2013, 8, e62694.	2.5	18
86	Biophysical and Bioinformatic Analyses Implicate the Treponema pallidum Tp34 Lipoprotein (Tp0971) in Transition Metal Homeostasis. Journal of Bacteriology, 2012, 194, 6771-6781.	2.2	17
87	Identification of a core sequence for the binding of BosR to the rpoS promoter region in Borrelia burgdorferi. Microbiology (United Kingdom), 2014, 160, 851-862.	1.8	17
88	Trypanosoma brucei S-Adenosylmethionine Decarboxylase N Terminus Is Essential for Allosteric Activation by the Regulatory Subunit Prozyme. Journal of Biological Chemistry, 2013, 288, 5232-5240.	3.4	16
89	Enhanced Sample Handling for Analytical Ultracentrifugation with 3D-Printed Centerpieces. Analytical Chemistry, 2019, 91, 5866-5873.	6.5	16
90	Insights into the potential function and membrane organization of the <scp>TP</scp> 0435 (<scp>T</scp> p17) lipoprotein from <scp><i>T</i></scp> <i>reponema pallidum</i> derived from structural and biophysical analyses. Protein Science, 2015, 24, 11-19.	7.6	15

#	Article	IF	CITATIONS
91	Measurement of the temperature of the resting rotor in analytical ultracentrifugation. Analytical Biochemistry, 2014, 458, 37-39.	2.4	14
92	The Tp0684 (MglB-2) Lipoprotein of Treponema pallidum: A Glucose-Binding Protein with Divergent Topology. PLoS ONE, 2016, 11, e0161022.	2.5	14
93	<i>Moraxella catarrhalis</i> Synthesizes an Autotransporter That Is an Acid Phosphatase. Journal of Bacteriology, 2008, 190, 1459-1472.	2.2	13
94	Fast and Robust Quantification of Detergent Micellization Thermodynamics from Isothermal Titration Calorimetry. Analytical Chemistry, 2020, 92, 1154-1161.	6.5	13
95	Reproducibility and accuracy of microscale thermophoresis in the NanoTemper Monolith: a multi laboratory benchmark study. European Biophysics Journal, 2021, 50, 411-427.	2.2	13
96	Direct regulation of p190RhoGEF by activated Rho and Rac GTPases. Journal of Structural Biology, 2018, 202, 13-24.	2.8	12
97	A multi-laboratory benchmark study of isothermal titration calorimetry (ITC) using Ca2+ and Mg2+ binding to EDTA. European Biophysics Journal, 2021, 50, 429-451.	2.2	12
98	Reconciling isothermal titration calorimetry analyses of interactions between complexin and truncated SNARE complexes. ELife, 2017, 6, .	6.0	11
99	Genetic and structural studies of RABL3 reveal an essential role in lymphoid development and function. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8563-8572.	7.1	10
100	Biocalorimetry. Methods, 2015, 76, 1-2.	3.8	9
101	Identification of a bacteriocin and its cognate immunity factor expressed by Moraxella catarrhalis. BMC Microbiology, 2009, 9, 207.	3.3	8
102	Identification of an Outer Membrane Lipoprotein Involved in Nasopharyngeal Colonization by Moraxella catarrhalis in an Animal Model. Infection and Immunity, 2014, 82, 2287-2299.	2.2	8
103	Functional clues from the crystal structure of an orphan periplasmic ligandâ€binding protein from <i>Treponema pallidum</i> . Protein Science, 2017, 26, 847-856.	7.6	7
104	Using modern approaches to sedimentation velocity to detect conformational changes in proteins. European Biophysics Journal, 2020, 49, 729-743.	2.2	7
105	Tissue-Specific Regulation of the Wnt/β-Catenin Pathway by PAGE4 Inhibition of Tankyrase. Cell Reports, 2020, 32, 107922.	6.4	7
106	A Protein Semisynthesis-Based Strategy to Investigate the Functional Impact of Linker Histone Serine ADP-Ribosylation. ACS Chemical Biology, 2022, 17, 810-815.	3.4	7
107	A Moraxella catarrhalis Two-Component Signal Transduction System Necessary for Growth in Liquid Media Affects Production of Two Lysozyme Inhibitors. Infection and Immunity, 2015, 83, 146-160.	2.2	6
108	The Haemophilus ducreyi Fis Protein Is Involved in Controlling Expression of the <i>lspB-lspA2</i> Operon and Other Virulence Factors. Infection and Immunity, 2013, 81, 4160-4170.	2.2	4

#	Article	IF	CITATIONS
109	Purification, crystallization and preliminary X-ray analysis of TPO435 (Tp17) from the syphilis spirochete <i>Treponema pallidum</i> . Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 453-455.	0.7	4
110	Crystal stuctures of MglBâ€⊋ (TP0684), a topologically variant <scp>d</scp> â€glucoseâ€binding protein from <i>Treponema pallidum,</i> reveal a ligandâ€induced conformational change. Protein Science, 2018, 27, 880-885.	7.6	4
111	Biophysical and Biochemical Characterization of TP0037, a <scp>d</scp> -Lactate Dehydrogenase, Supports an Acetogenic Energy Conservation Pathway in Treponema pallidum. MBio, 2020, 11, .	4.1	4
112	Measuring the KD of Protein–Ligand Interactions Using Microscale Thermophoresis. Methods in Molecular Biology, 2021, 2263, 161-181.	0.9	3
113	The feasibility of determining kinetic constants from isothermal titration calorimetry data. Biophysical Journal, 2022, , .	0.5	3
114	Inhibition of bacterial FMN transferase: A potential avenue for countering antimicrobial resistance. Protein Science, 2021, , .	7.6	2
115	Molecular Size Analysis of Recombinant Importin-histone Complexes Using Analytical Ultracentrifugation. Bio-protocol, 2020, 10, e3625.	0.4	1
116	Biophysical insights into a highly selective <scp>l</scp> â€arginineâ€binding lipoprotein of a pathogenic treponeme. Protein Science, 2018, 27, 2037-2050.	7.6	0