

David Gil

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9211973/publications.pdf>

Version: 2024-02-01

69
papers

2,972
citations

185998

28
h-index

174990

52
g-index

74
all docs

74
docs citations

74
times ranked

5990
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and Comprehensive Proteome Profiling of Exosomes Secreted by Hepatocytes. <i>Journal of Proteome Research</i> , 2008, 7, 5157-5166.	1.8	530
2	Structure of ratcheted ribosomes with tRNAs in hybrid states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16924-16927.	3.3	161
3	Molecular nucleation mechanisms and control strategies for crystal polymorph selection. <i>Nature</i> , 2018, 556, 89-94.	13.7	150
4	Candidate biomarkers in exosome-like vesicles purified from rat and mouse urine samples. <i>Proteomics - Clinical Applications</i> , 2010, 4, 416-425.	0.8	116
5	The Cryo-EM Structure of a Complete 30S Translation Initiation Complex from <i>Escherichia coli</i> . <i>PLoS Biology</i> , 2011, 9, e1001095.	2.6	102
6	Structural Insights into the Oligomerization and Architecture of Eukaryotic Membrane Pore-Forming Toxins. <i>Structure</i> , 2011, 19, 181-191.	1.6	99
7	The structural unit of melanin in the cell wall of the fungal pathogen <i>Cryptococcus neoformans</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 10471-10489.	1.6	85
8	Mechanism of Membranous Tunnelling Nanotube Formation in Viral Genome Delivery. <i>PLoS Biology</i> , 2013, 11, e1001667.	2.6	75
9	The cryo-EM structure of the UPF1-EJC complex shows UPF1 poised toward the RNA 3' end. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 498-505.	3.6	68
10	Reconstitution of Proapoptotic BAK Function in Liposomes Reveals a Dual Role for Mitochondrial Lipids in the BAK-driven Membrane Permeabilization Process. <i>Journal of Biological Chemistry</i> , 2011, 286, 8213-8230.	1.6	66
11	Electron microscopy studies on the quaternary structure of p53 reveal different binding modes for p53 tetramers in complex with DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 557-562.	3.3	65
12	Structure of p15PAF-PCNA complex and implications for clamp sliding during DNA replication and repair. <i>Nature Communications</i> , 2015, 6, 6439.	5.8	65
13	The dynamic assembly of distinct RNA polymerase I complexes modulates rDNA transcription. <i>ELife</i> , 2017, 6, .	2.8	60
14	Proteomics analysis of vesicles isolated from plasma and urine of prostate cancer patients using a multiplex, aptamer-based protein array. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 31209.	5.5	58
15	Cofactors influence the biological properties of infectious recombinant prions. <i>Acta Neuropathologica</i> , 2018, 135, 179-199.	3.9	56
16	A Symmetrical Tetramer for <i>S. aureus</i> Pyruvate Carboxylase in Complex with Coenzyme A. <i>Structure</i> , 2009, 17, 823-832.	1.6	55
17	Lipid Geometry and Bilayer Curvature Modulate LC3/GABARAP-Mediated Model Autophagosomal Elongation. <i>Biophysical Journal</i> , 2016, 110, 411-422.	0.2	54
18	RPAP3 provides a flexible scaffold for coupling HSP90 to the human R2TP co-chaperone complex. <i>Nature Communications</i> , 2018, 9, 1501.	5.8	54

#	ARTICLE	IF	CITATIONS
19	The structure of the antimicrobial human cathelicidin LL-37 shows oligomerization and channel formation in the presence of membrane mimics. <i>Scientific Reports</i> , 2020, 10, 17356.	1.6	54
20	Model Systems of Precursor Cellular Membranes: Long-Chain Alcohols Stabilize Spontaneously Formed Oleic Acid Vesicles. <i>Biophysical Journal</i> , 2012, 102, 278-286.	0.2	52
21	The ribosome triggers the stringent response by RelA via a highly distorted tRNA. <i>EMBO Reports</i> , 2013, 14, 811-816.	2.0	52
22	Structural remodeling and oligomerization of human cathelicidin on membranes suggest fibril-like structures as active species. <i>Scientific Reports</i> , 2017, 7, 15371.	1.6	51
23	The Structure of the R2TP Complex Defines a Platform for Recruiting Diverse Client Proteins to the HSP90 Molecular Chaperone System. <i>Structure</i> , 2017, 25, 1145-1152.e4.	1.6	48
24	Conformational transitions regulate the exposure of a DNA-binding domain in the RuvBL1-RuvBL2 complex. <i>Nucleic Acids Research</i> , 2012, 40, 11086-11099.	6.5	47
25	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. <i>Nanoscale</i> , 2018, 10, 7407-7419.	2.8	47
26	The hexameric structure of the human mitochondrial replicative helicase Twinkle. <i>Nucleic Acids Research</i> , 2015, 43, 4284-4295.	6.5	40
27	Structure of Turnip mosaic virus and its viral-like particles. <i>Scientific Reports</i> , 2019, 9, 15396.	1.6	36
28	Differences in the metabolite composition and mechanical properties of extracellular vesicles secreted by hepatic cellular models. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1575678.	5.5	35
29	Ribosome rearrangements at the onset of translational bypassing. <i>Science Advances</i> , 2017, 3, e1700147.	4.7	31
30	Antimycobacterial Effect of Selenium Nanoparticles on <i>Mycobacterium tuberculosis</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 800.	1.5	31
31	Insight into the Assembly of Viruses with Vertical Single β -barrel Major Capsid Proteins. <i>Structure</i> , 2015, 23, 1866-1877.	1.6	29
32	RsgA couples the maturation state of the 30S ribosomal decoding center to activation of its GTPase pocket. <i>Nucleic Acids Research</i> , 2017, 45, 6945-6959.	6.5	29
33	Cryo-EM Analysis Reveals New Insights into the Mechanism of Action of Pyruvate Carboxylase. <i>Structure</i> , 2010, 18, 1300-1310.	1.6	27
34	Structural basis of RNA polymerase I stalling at UV light-induced DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8972-8977.	3.3	27
35	Structural basis for assembly of vertical single β -barrel viruses. <i>Nature Communications</i> , 2019, 10, 1184.	5.8	25
36	Does Ceramide Form Channels? The Ceramide-Induced Membrane Permeabilization Mechanism. <i>Biophysical Journal</i> , 2017, 113, 860-868.	0.2	24

#	ARTICLE	IF	CITATIONS
37	Recombinant PrP ^{Sc} shares structural features with brain-derived PrP ^{Sc} : Insights from limited proteolysis. <i>PLoS Pathogens</i> , 2018, 14, e1006797.	2.1	24
38	Functional Conformations for Pyruvate Carboxylase during Catalysis Explored by Cryoelectron Microscopy. <i>Structure</i> , 2014, 22, 911-922.	1.6	23
39	Structure of a 30S pre-initiation complex stalled by GE81112 reveals structural parallels in bacterial and eukaryotic protein synthesis initiation pathways. <i>Nucleic Acids Research</i> , 2017, 45, gkw1251.	6.5	23
40	Identification of a Membrane-bound Prepore Species Clarifies the Lytic Mechanism of Actinoporins. <i>Journal of Biological Chemistry</i> , 2016, 291, 19210-19219.	1.6	23
41	A conserved rRNA switch is central to decoding site maturation on the small ribosomal subunit. <i>Science Advances</i> , 2021, 7, .	4.7	23
42	A switch from 1 st helical to 2 nd strand conformation during co-translational protein folding. <i>EMBO Journal</i> , 2022, 41, e109175.	3.5	21
43	Coating Graphene Oxide with Lipid Bilayers Greatly Decreases Its Hemolytic Properties. <i>Langmuir</i> , 2017, 33, 8181-8191.	1.6	20
44	Regulation of macrophage activity by surface receptors contained within <i>Borrelia burgdorferi</i> -enriched phagosomal fractions. <i>PLoS Pathogens</i> , 2019, 15, e1008163.	2.1	20
45	<i>Triatoma</i> Virus Recombinant VP4 Protein Induces Membrane Permeability through Dynamic Pores. <i>Journal of Virology</i> , 2015, 89, 4645-4654.	1.5	18
46	<i>Mycobacterium tuberculosis</i> extracellular vesicle-associated lipoprotein LpqH as a potential biomarker to distinguish paratuberculosis infection or vaccination from tuberculosis infection. <i>BMC Veterinary Research</i> , 2019, 15, 188.	0.7	18
47	Lipidic nanovesicles stabilize suspensions of metal oxide nanoparticles. <i>Chemistry and Physics of Lipids</i> , 2015, 191, 84-90.	1.5	15
48	Elucidating the role of shape anisotropy in faceted magnetic nanoparticles using biogenic magnetosomes as a model. <i>Nanoscale</i> , 2020, 12, 16081-16090.	2.8	15
49	Human Mammospheres Secrete Hormone-Regulated Active Extracellular Vesicles. <i>PLoS ONE</i> , 2014, 9, e83955.	1.1	14
50	Generation of a new infectious recombinant prion: a model to understand Gerstmann-Sträussler-Scheinker syndrome. <i>Scientific Reports</i> , 2017, 7, 9584.	1.6	14
51	Hereditary tyrosinemia type I-associated mutations in fumarylacetoacetate hydrolase reduce the enzyme stability and increase its aggregation rate. <i>Journal of Biological Chemistry</i> , 2019, 294, 13051-13060.	1.6	13
52	High-Melting Lipid Mixtures and the Origin of Detergent-Resistant Membranes Studied with Temperature-Solubilization Diagrams. <i>Biophysical Journal</i> , 2014, 107, 2828-2837.	0.2	11
53	Protein-directed crystalline 2D fullerene assemblies. <i>Nanoscale</i> , 2020, 12, 3614-3622.	2.8	11
54	Photoacoustic effect applied on model membranes and living cells: direct observation with multiphoton excitation microscopy and long-term viability analysis. <i>Scientific Reports</i> , 2020, 10, 299.	1.6	9

#	ARTICLE	IF	CITATIONS
55	Pores of the toxin FraC assemble into 2D hexagonal clusters in both crystal structures and model membranes. <i>Journal of Structural Biology</i> , 2012, 180, 312-317.	1.3	7
56	Three-dimensional visualization of forming Hepatitis C virus-like particles by electron-tomography. <i>Virology</i> , 2012, 430, 120-126.	1.1	7
57	Histones Cause Aggregation and Fusion of Lipid Vesicles Containing Phosphatidylinositol-4-Phosphate. <i>Biophysical Journal</i> , 2015, 108, 863-871.	0.2	7
58	Studying nanoparticles' 3D shape by aspect maps: Determination of the morphology of bacterial magnetic nanoparticles. <i>Faraday Discussions</i> , 2016, 191, 177-188.	1.6	7
59	Electron Microscopy Structural Insights into CPAP Oligomeric Behavior: A Plausible Assembly Process of a Supramolecular Scaffold of the Centrosome. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 17.	1.6	5
60	The interaction of lipid-liganded gold clusters (Aurora Au_n) with lipid bilayers. <i>Chemistry and Physics of Lipids</i> , 2019, 218, 40-46.	1.5	5
61	Real-time and decision taking selection of single-particles during automated cryo-EM sessions based on neuro-fuzzy method. <i>Expert Systems With Applications</i> , 2016, 55, 403-416.	4.4	2
62	The allosteric control mechanism of bacterial glycogen biosynthesis disclosed by cryoEM. <i>Current Research in Structural Biology</i> , 2020, 2, 89-103.	1.1	2
63	A Greasy Aid to Capsid Assembly: Lessons from a Salty Virus. <i>Structure</i> , 2015, 23, 1777-1779.	1.6	1
64	Dissecting the BAK-driven outer mitochondrial membrane permeabilization pathway using in vitro reconstituted systems. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 119.	0.5	0
65	The Triatoma Virus Structural Protein VP4 Induces Membrane Permeability through Dynamic Pores. <i>Biophysical Journal</i> , 2015, 108, 83a.	0.2	0
66	Fuzzy inference system as decision-maker to automate cryo-EM data acquisition on a transmission electron microscope. , 2015, , .		0
67	Lipid Modulation of LC3/GABARAP-Mediated Autophagosomal Elongation. <i>Biophysical Journal</i> , 2016, 110, 247a-248a.	0.2	0
68	Three-Dimensional Analysis of Human Mitochondrial Replicative Helicase Twinkle. <i>Biophysical Journal</i> , 2017, 112, 3a.	0.2	0
69	Natural and pharmacological chaperones against accelerated protein degradation: uroporphyrinogen III synthase and congenital erythropoietic porphyria. , 2020, , 389-413.		0