David Gil

List of Publications by Year
in descending order

69 papers	2,972 citations	172457 29 h-index	175258 52 g-index
74 all docs	74 docs citations	74 times ranked	5990 citing authors

#	Article	IF	Citations
1	A switch from Î±â€helical to Î²â€strand conformation during coâ€translational protein folding. EMBO Journal, 2022, 41, e109175.	7.8	21
2	A conserved rRNA switch is central to decoding site maturation on the small ribosomal subunit. Science Advances, 2021, 7, .	10.3	23
3	Protein-directed crystalline 2D fullerene assemblies. Nanoscale, 2020, 12, 3614-3622.	5.6	11
4	Natural and pharmacological chaperones against accelerated protein degradation: uroporphyrinogen III synthase and congenital erythropoietic porphyria. , 2020, , 389-413.		0
5	The structure of the antimicrobial human cathelicidin LL-37 shows oligomerization and channel formation in the presence of membrane mimics. Scientific Reports, 2020, 10, 17356.	3.3	54
6	Antimycobacterial Effect of Selenium Nanoparticles on Mycobacterium tuberculosis. Frontiers in Microbiology, 2020, 11, 800.	3.5	31
7	Elucidating the role of shape anisotropy in faceted magnetic nanoparticles using biogenic magnetosomes as a model. Nanoscale, 2020, 12, 16081-16090.	5.6	15
8	Photoacoustic effect applied on model membranes and living cells: direct observation with multiphoton excitation microscopy and long-term viability analysis. Scientific Reports, 2020, 10, 299.	3.3	9
9	The allosteric control mechanism of bacterial glycogen biosynthesis disclosed by cryoEM. Current Research in Structural Biology, 2020, 2, 89-103.	2.2	2
10	Hereditary tyrosinemia type Iâ€"associated mutations in fumarylacetoacetate hydrolase reduce the enzyme stability and increase its aggregation rate. Journal of Biological Chemistry, 2019, 294, 13051-13060.	3.4	13
11	Structure of Turnip mosaic virus and its viral-like particles. Scientific Reports, 2019, 9, 15396.	3.3	36
12	The structural unit of melanin in the cell wall of the fungal pathogen Cryptococcus neoformans. Journal of Biological Chemistry, 2019, 294, 10471-10489.	3.4	85
13	Mycobacterium tuberculosis extracellular vesicle-associated lipoprotein LpqH as a potential biomarker to distinguish paratuberculosis infection or vaccination from tuberculosis infection. BMC Veterinary Research, 2019, 15, 188.	1.9	18
14	Structural basis for assembly of vertical single Î²-barrel viruses. Nature Communications, 2019, 10, 1184.	12.8	25
15	Differences in the metabolite composition and mechanical properties of extracellular vesicles secreted by hepatic cellular models. Journal of Extracellular Vesicles, 2019, 8, 1575678.	12.2	35
16	Regulation of macrophage activity by surface receptors contained within Borrelia burgdorferi-enriched phagosomal fractions. PLoS Pathogens, 2019, 15, e1008163.	4.7	20
17	The interaction of lipid-liganded gold clusters (Aurora â„¢) with lipid bilayers. Chemistry and Physics of Lipids, 2019, 218, 40-46.	3.2	5
18	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. Nanoscale, 2018, 10, 7407-7419.	5.6	47

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19	RPAP3 provides a flexible scaffold for coupling HSP90 to the human R2TP co-chaperone complex. Nature Communications, 2018, 9, 1501.	12.8	54
20	Molecular nucleation mechanisms and control strategies for crystal polymorph selection. Nature, 2018, 556, 89-94.	27.8	150
21	Cofactors influence the biological properties of infectious recombinant prions. Acta Neuropathologica, 2018, 135, 179-199.	7.7	56
22	Structural basis of RNA polymerase I stalling at UV light-induced DNA damage. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8972-8977.	7.1	27
23	Recombinant PrPSc shares structural features with brain-derived PrPSc: Insights from limited proteolysis. PLoS Pathogens, 2018, 14, e1006797.	4.7	24
24	Structure of a 30S pre-initiation complex stalled by GE81112 reveals structural parallels in bacterial and eukaryotic protein synthesis initiation pathways. Nucleic Acids Research, 2017, 45, gkw1251.	14.5	23
25	RsgA couples the maturation state of the 30S ribosomal decoding center to activation of its GTPase pocket. Nucleic Acids Research, 2017, 45, 6945-6959.	14.5	29
26	Ribosome rearrangements at the onset of translational bypassing. Science Advances, 2017, 3, e1700147.	10.3	31
27	Three-Dimensional Analysis of Human Mitochondrial Replicative Helicase Twinkle. Biophysical Journal, 2017, 112, 3a.	0.5	0
28	Does Ceramide Form Channels? The Ceramide-Induced Membrane Permeabilization Mechanism. Biophysical Journal, 2017, 113, 860-868.	0.5	24
29	Generation of a new infectious recombinant prion: a model to understand Gerstmannâ€"StrÃusslerâ€"Scheinker syndrome. Scientific Reports, 2017, 7, 9584.	3.3	14
30	Coating Graphene Oxide with Lipid Bilayers Greatly Decreases Its Hemolytic Properties. Langmuir, 2017, 33, 8181-8191.	3.5	20
31	Structural remodeling and oligomerization of human cathelicidin on membranes suggest fibril-like structures as active species. Scientific Reports, 2017, 7, 15371.	3.3	51
32	The Structure of the R2TP Complex Defines a Platform for Recruiting Diverse Client Proteins to the HSP90 Molecular Chaperone System. Structure, 2017, 25, 1145-1152.e4.	3.3	48
33	The dynamic assembly of distinct RNA polymerase I complexes modulates rDNA transcription. ELife, 2017, 6, .	6.0	60
34	Electron Microscopy Structural Insights into CPAP Oligomeric Behavior: A Plausible Assembly Process of a Supramolecular Scaffold of the Centrosome. Frontiers in Molecular Biosciences, 2017, 4, 17.	3.5	5
35	Proteomics analysis of vesicles isolated from plasma and urine of prostate cancer patients using a multiplex, aptamerâ€based protein array. Journal of Extracellular Vesicles, 2016, 5, 31209.	12.2	58
36	Lipid Modulation of LC3/GABARAP-Mediated Autophagosomal Elongation. Biophysical Journal, 2016, 110, 247a-248a.	0.5	0

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37	Real-time and decision taking selection of single-particles during automated cryo-EM sessions based on neuro-fuzzy method. Expert Systems With Applications, 2016, 55, 403-416.	7.6	2
38	Identification of a Membrane-bound Prepore Species Clarifies the Lytic Mechanism of Actinoporins. Journal of Biological Chemistry, 2016, 291, 19210-19219.	3.4	23
39	Studying nanoparticlesâ€™ 3D shape by aspect maps: Determination of the morphology of bacterial magnetic nanoparticles. Faraday Discussions, 2016, 191, 177-188.	3.2	7
40	Lipid Geometry and Bilayer Curvature Modulate LC3/GABARAP-Mediated Model Autophagosomal Elongation. Biophysical Journal, 2016, 110, 411-422.	0.5	54
41	The Triatoma Virus Structural Protein VP4 Induces Membrane Permeability through Dynamic Pores. Biophysical Journal, 2015, 108, 83a.	0.5	0
42	A Greasy Aid to Capsid Assembly: Lessons from a Salty Virus. Structure, 2015, 23, 1777-1779.	3.3	1
43	Histones Cause Aggregation and Fusion of Lipid Vesicles Containing Phosphatidylinositol-4-Phosphate. Biophysical Journal, 2015, 108, 863-871.	0.5	7
44	Triatoma Virus Recombinant VP4 Protein Induces Membrane Permeability through Dynamic Pores. Journal of Virology, 2015, 89, 4645-4654.	3.4	18
45	The hexameric structure of the human mitochondrial replicative helicase Twinkle. Nucleic Acids Research, 2015, 43, 4284-4295.	14.5	40
46	Structure of p15PAFâ€"PCNA complex and implications for clamp sliding during DNA replication and repair. Nature Communications, 2015, 6, 6439.	12.8	65
47	Fuzzy inference system as decision-maker to automate cryo-EM data acquisition on a transmission electron microscope. , 2015, , .		0
48	Insight into the Assembly of Viruses with Vertical Single Î²-barrel Major Capsid Proteins. Structure, 2015, 23, 1866-1877.	3.3	29
49	Lipidic nanovesicles stabilize suspensions of metal oxide nanoparticles. Chemistry and Physics of Lipids, 2015, 191, 84-90.	3.2	15
50	Human Mammospheres Secrete Hormone-Regulated Active Extracellular Vesicles. PLoS ONE, 2014, 9, e83955.	2.5	14
51	High-Melting Lipid Mixtures and the Origin of Detergent-Resistant Membranes Studied with Temperature-Solubilization Diagrams. Biophysical Journal, 2014, 107, 2828-2837.	0.5	11
52	Functional Conformations for Pyruvate Carboxylase during Catalysis Explored by Cryoelectron Microscopy. Structure, 2014, 22, 911-922.	3.3	23
53	The ribosome triggers the stringent response by RelA via a highly distorted tRNA. EMBO Reports, 2013, 14, 811-816.	4.5	52
54	Mechanism of Membranous Tunnelling Nanotube Formation in Viral Genome Delivery. PLoS Biology, 2013, 11, e1001667.	5.6	75

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55	Conformational transitions regulate the exposure of a DNA-binding domain in the RuvBL1â€“RuvBL2 complex. Nucleic Acids Research, 2012, 40, 11086-11099.	14.5	47
56	Pores of the toxin FraC assemble into 2D hexagonal clusters in both crystal structures and model membranes. Journal of Structural Biology, 2012, 180, 312-317.	2.8	7
57	The cryo-EM structure of the UPFâ€“EJC complex shows UPF1 poised toward the RNA 3â€² end. Nature Structural and Molecular Biology, 2012, 19, 498-505.	8.2	68
58	Model Systems of Precursor Cellular Membranes: Long-Chain Alcohols Stabilize Spontaneously Formed Oleic Acid Vesicles. Biophysical Journal, 2012, 102, 278-286.	0.5	52
59	Three-dimensional visualization of forming Hepatitis C virus-like particles by electron-tomography. Virology, 2012, 430, 120-126.	2.4	7
60	Structural Insights into the Oligomerization and Architecture of Eukaryotic Membrane Pore-Forming Toxins. Structure, 2011, 19, 181-191.	3.3	99
61	Electron microscopy studies on the quaternary structure of p53 reveal different binding modes for p53 tetramers in complex with DNA. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 557-562.	7.1	65
62	The Cryo-EM Structure of a Complete 30S Translation Initiation Complex from Escherichia coli. PLoS Biology, 2011, 9, e1001095.	5.6	102
63	Reconstitution of Proapoptotic BAK Function in Liposomes Reveals a Dual Role for Mitochondrial Lipids in the BAK-driven Membrane Permeabilization Process. Journal of Biological Chemistry, 2011, 286, 8213-8230.	3.4	66
64	Cryo-EM Analysis Reveals New Insights into the Mechanism of Action of Pyruvate Carboxylase. Structure, 2010, 18, 1300-1310.	3.3	27
65	Dissecting the BAK-driven outer mitochondrial membrane permeabilization pathway using in vitro reconstituted systems. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 119.	1.0	0
66	Candidate biomarkers in exosomeâ€like vesicles purified from rat and mouse urine samples. Proteomics - Clinical Applications, 2010, 4, 416-425.	1.6	116
67	A Symmetrical Tetramer for S. aureus Pyruvate Carboxylase in Complex with Coenzyme A. Structure, 2009, 17, 823-832.	3.3	55
68	Characterization and Comprehensive Proteome Profiling of Exosomes Secreted by Hepatocytes. Journal of Proteome Research, 2008, 7, 5157-5166.	3.7	530
69	Structure of ratcheted ribosomes with tRNAs in hybrid states. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16924-16927.	7.1	161