

Yann Gambin

List of Publications by Year in descending order

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71
papers

3,376
citations

147801

31
h-index

155660

55
g-index

91
all docs

91
docs citations

91
times ranked

5015
citing authors

#	ARTICLE	IF	CITATIONS
1	Interplay of α -synuclein binding and conformational switching probed by single-molecule fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5645-5650.	7.1	379
2	Mechanism of Activation of Protein Kinase JAK2 by the Growth Hormone Receptor. <i>Science</i> , 2014, 344, 1249783.	12.6	340
3	SARS-CoV-2 proteases PLpro and 3CLpro cleave IRF3 and critical modulators of inflammatory pathways (NLRP12 and TAB1): implications for disease presentation across species. <i>Emerging Microbes and Infections</i> , 2021, 10, 178-195.	6.5	178
4	Structural basis of TIR-domain-assembly formation in MAL- and MyD88-dependent TLR4 signaling. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 743-751.	8.2	140
5	Visualizing a one-way protein encounter complex by ultrafast single-molecule mixing. <i>Nature Methods</i> , 2011, 8, 239-241.	19.0	128
6	Single-molecule analysis reveals self assembly and nanoscale segregation of two distinct cavin subcomplexes on caveolae. <i>ELife</i> , 2013, 3, e01434.	6.0	114
7	Single-Molecule Fluorescence Studies of Intrinsically Disordered Proteins. <i>Methods in Enzymology</i> , 2010, 472, 179-204.	1.0	104
8	Characterising proteolysis during SARS-CoV-2 infection identifies viral cleavage sites and cellular targets with therapeutic potential. <i>Nature Communications</i> , 2021, 12, 5553.	12.8	76
9	Viral M45 and necroptosis-associated proteins form heteromeric amyloid assemblies. <i>EMBO Reports</i> , 2019, 20, .	4.5	73
10	Direct single-molecule observation of a protein living in two opposed native structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10153-10158.	7.1	72
11	Multicolor single-molecule FRET to explore protein folding and binding. <i>Molecular BioSystems</i> , 2010, 6, 1540.	2.9	68
12	Thinking Outside the Bug: Molecular Targets and Strategies to Overcome Antibiotic Resistance. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1255.	4.1	67
13	Ultrafast microfluidic mixer with three-dimensional flow focusing for studies of biochemical kinetics. <i>Lab on A Chip</i> , 2010, 10, 598-609.	6.0	66
14	Counteracting chemical chaperone effects on the single-molecule α -synuclein structural landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17826-17831.	7.1	65
15	The cryo-EM structure of the acid activatable pore-forming immune effector Macrophage-expressed gene 1. <i>Nature Communications</i> , 2019, 10, 4288.	12.8	65
16	Structure of a PSI ^L -LHCl ^L -cyt b ₆ f supercomplex in <i>Chlamydomonas reinhardtii</i> promoting cyclic electron flow under anaerobic conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10517-10522.	7.1	64
17	Microfluidic Device for Single-Molecule Experiments with Enhanced Photostability. <i>Journal of the American Chemical Society</i> , 2009, 131, 13610-13612.	13.7	61
18	Cortactin Scaffolds Arp2/3 and WAVE2 at the Epithelial Zonula Adherens. <i>Journal of Biological Chemistry</i> , 2014, 289, 7764-7775.	3.4	59

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19	Munc18-1 is a molecular chaperone for α -synuclein, controlling its self-replicating aggregation. <i>Journal of Cell Biology</i> , 2016, 214, 705-718.	5.2	56
20	MyD88 TIR domain higher-order assembly interactions revealed by microcrystal electron diffraction and serial femtosecond crystallography. <i>Nature Communications</i> , 2021, 12, 2578.	12.8	55
21	Identification of intracellular cavin target proteins reveals cavin-PP1 α interactions regulate apoptosis. <i>Nature Communications</i> , 2019, 10, 3279.	12.8	53
22	Performance benchmarking of four cell-free protein expression systems. <i>Biotechnology and Bioengineering</i> , 2016, 113, 292-300.	3.3	50
23	Pharmacological targeting of the transcription factor SOX18 delays breast cancer in mice. <i>ELife</i> , 2017, 6, .	6.0	50
24	Increased Polyubiquitination and Proteasomal Degradation of a Munc18-1 Disease-Linked Mutant Causes Temperature-Sensitive Defect in Exocytosis. <i>Cell Reports</i> , 2014, 9, 206-218.	6.4	49
25	Cell-free formation and interactome analysis of caveolae. <i>Journal of Cell Biology</i> , 2018, 217, 2141-2165.	5.2	48
26	Quantitative Analysis of Prenylated RhoA Interaction with Its Chaperone, RhoGDI. <i>Journal of Biological Chemistry</i> , 2012, 287, 26549-26562.	3.4	47
27	Small-Molecule Inhibitors of the SOX18 Transcription Factor. <i>Cell Chemical Biology</i> , 2017, 24, 346-359.	5.2	42
28	Ultrastructural localisation of protein interactions using conditionally stable nanobodies. <i>PLoS Biology</i> , 2018, 16, e2005473.	5.6	42
29	Single-molecule detection on a portable 3D-printed microscope. <i>Nature Communications</i> , 2019, 10, 5662.	12.8	40
30	Single-Molecule Fluorescence Reveals the Oligomerization and Folding Steps Driving the Prion-like Behavior of ASC. <i>Journal of Molecular Biology</i> , 2018, 430, 491-508.	4.2	38
31	Rapid Mapping of Interactions between Human SNX-BAR Proteins Measured In Vitro by AlphaScreen and Single-molecule Spectroscopy. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2233-2245.	3.8	36
32	R-propranolol is a small molecule inhibitor of the SOX18 transcription factor in a rare vascular syndrome and hemangioma. <i>ELife</i> , 2019, 8, .	6.0	35
33	Variation of the Lateral Mobility of Transmembrane Peptides with Hydrophobic Mismatch. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3559-3566.	2.6	34
34	Confocal Spectroscopy to Study Dimerization, Oligomerization and Aggregation of Proteins: A Practical Guide. <i>International Journal of Molecular Sciences</i> , 2016, 17, 655.	4.1	34
35	Varicella zoster virus encodes a viral decoy RHIM to inhibit cell death. <i>PLoS Pathogens</i> , 2020, 16, e1008473.	4.7	34
36	Microfabricated rubber microscope using soft solid immersion lenses. <i>Applied Physics Letters</i> , 2006, 88, 174102.	3.3	32

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37	Intramolecular three-colour single pair FRET of intrinsically disordered proteins with increased dynamic range. <i>Molecular BioSystems</i> , 2012, 8, 2531.	2.9	32
38	High-Resolution Temperature-Concentration Diagram of β -Synuclein Conformation Obtained from a Single Förster Resonance Energy Transfer Image in a Microfluidic Device. <i>Analytical Chemistry</i> , 2009, 81, 6929-6935.	6.5	30
39	Nanomolar oligomerization and selective co-aggregation of β -synuclein pathogenic mutants revealed by single-molecule fluorescence. <i>Scientific Reports</i> , 2016, 6, 37630.	3.3	29
40	Tracking Membrane Protein Association in Model Membranes. <i>PLoS ONE</i> , 2009, 4, e5035.	2.5	29
41	Bounded Step Superdiffusion in an Oriented Hexagonal Phase. <i>Physical Review Letters</i> , 2005, 94, 110602.	7.8	23
42	Ultrafast cooling reveals microsecond-scale biomolecular dynamics. <i>Nature Communications</i> , 2014, 5, 5737.	12.8	23
43	Pathological mutations differentially affect the self-assembly and polymerisation of the innate immune system signalling adaptor molecule MyD88. <i>BMC Biology</i> , 2018, 16, 149.	3.8	22
44	Homodimerization regulates an endothelial specific signature of the SOX18 transcription factor. <i>Nucleic Acids Research</i> , 2018, 46, 11381-11395.	14.5	21
45	An inverted CAV1 (caveolin 1) topology defines novel autophagy-dependent exosome secretion from prostate cancer cells. <i>Autophagy</i> , 2021, 17, 2200-2216.	9.1	21
46	Unveiling a Selective Mechanism for the Inhibition of β -Synuclein Aggregation by β^2 -Synuclein. <i>International Journal of Molecular Sciences</i> , 2018, 19, 334.	4.1	20
47	Herpes simplex virus encoded ICP6 protein forms functional amyloid assemblies with necroptosis-associated host proteins. <i>Biophysical Chemistry</i> , 2021, 269, 106524.	2.8	20
48	Self-diffusion and collective diffusion in a model viscoelastic system. <i>Physical Review E</i> , 2002, 66, 031402.	2.1	19
49	Unexpected instabilities explain batch-to-batch variability in cell-free protein expression systems. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1904-1914.	3.3	19
50	Prions and Prion-like assemblies in neurodegeneration and immunity: The emergence of universal mechanisms across health and disease. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 115-130.	5.0	19
51	Selectivity of Lewy body protein interactions along the aggregation pathway of β -synuclein. <i>Communications Biology</i> , 2021, 4, 1124.	4.4	19
52	Single-Molecule Counting Coupled to Rapid Amplification Enables Detection of β -Synuclein Aggregates in Cerebrospinal Fluid of Parkinson's Disease Patients. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11874-11883.	13.8	17
53	A robust method for particulate detection of a genetic tag for 3D electron microscopy. <i>ELife</i> , 2021, 10, .	6.0	16
54	Single-Molecule Counting Coupled to Rapid Amplification Enables Detection of β -Synuclein Aggregates in Cerebrospinal Fluid of Parkinson's Disease Patients. <i>Angewandte Chemie</i> , 2021, 133, 11981-11990.	2.0	11

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55	Cavin3 released from caveolae interacts with BRCA1 to regulate the cellular stress response. <i>ELife</i> , 2021, 10, .	6.0	11
56	Biophysical Techniques for Target Validation and Drug Discovery in Transcription-Targeted Therapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2301.	4.1	9
57	Functional domain analysis of SOX18 transcription factor using a single-chain variable fragment-based approach. <i>MAbs</i> , 2018, 10, 596-606.	5.2	7
58	A dominant-negative SOX18 mutant disrupts multiple regulatory layers essential to transcription factor activity. <i>Nucleic Acids Research</i> , 2021, 49, 10931-10955.	14.5	7
59	Single Molecule Fingerprinting Reveals Different Amplification Properties of \pm -Synuclein Oligomers and Preformed Fibrils in Seeding Assay. <i>ACS Chemical Neuroscience</i> , 2022, 13, 883-896.	3.5	7
60	A Split-Luciferase Reporter Recognizing GFP and mCherry Tags to Facilitate Studies of Protein-Protein Interactions. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2681.	4.1	6
61	Evaluation of Lipopeptides as Toll-like Receptor 2 Ligands. <i>Current Drug Delivery</i> , 2017, 14, 935-943.	1.6	6
62	Rapid HIV-1 Capsid Interaction Screening Using Fluorescence Fluctuation Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 3786-3793.	6.5	4
63	The RHIM of the Immune Adaptor Protein TRIF Forms Hybrid Amyloids with Other Necroptosis-Associated Proteins. <i>Molecules</i> , 2022, 27, 3382.	3.8	3
64	Design, Synthesis, and Evaluation of N- and C-Terminal Protein Bioconjugates as G Protein-Coupled Receptor Agonists. <i>Bioconjugate Chemistry</i> , 2018, 29, 403-409.	3.6	1
65	Probing the architecture of the Mediator complex (939.3). <i>FASEB Journal</i> , 2014, 28, 939.3.	0.5	1
66	Editorial. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 1-2.	5.0	0
67	Enteropathogenic <i>E. coli</i> Hijacks Programmed Host-Cell Death Pathways by Interfering with the Higher Order Oligomerization of Immune System Proteins. <i>FASEB Journal</i> , 2019, 33, 649.6.	0.5	0
68	Varicella zoster virus encodes a viral decoy RHIM to inhibit cell death. , 2020, 16, e1008473.		0
69	Varicella zoster virus encodes a viral decoy RHIM to inhibit cell death. , 2020, 16, e1008473.		0
70	Varicella zoster virus encodes a viral decoy RHIM to inhibit cell death. , 2020, 16, e1008473.		0
71	Varicella zoster virus encodes a viral decoy RHIM to inhibit cell death. , 2020, 16, e1008473.		0