

Arie Geerlof

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1098823/publications.pdf>

Version: 2024-02-01

64
papers

2,840
citations

147566
31
h-index

182168
51
g-index

65
all docs

65
docs citations

65
times ranked

4930
citing authors

#	ARTICLE	IF	CITATIONS
1	Cleavage of roquin and regnase-1 by the paracaspase MALT1 releases their cooperatively repressed targets to promote TH17 differentiation. <i>Nature Immunology</i> , 2014, 15, 1079-1089.	7.0	238
2	Roquin Paralogs 1 and 2 Redundantly Repress the Icos and Ox40 Costimulator mRNAs and Control Follicular Helper T Cell Differentiation. <i>Immunity</i> , 2013, 38, 655-668.	6.6	178
3	Methods for Protein Characterization by Mass Spectrometry, Thermal Shift (ThermoFluor) Assay, and Multiangle or Static Light Scattering. <i>Methods in Molecular Biology</i> , 2008, 426, 299-318.	0.4	118
4	Differential inhibition of Arabidopsis superoxide dismutases by peroxynitrite-mediated tyrosine nitration. <i>Journal of Experimental Botany</i> , 2015, 66, 989-999.	2.4	116
5	Purification and Characterization of Phosphopantetheine Adenylyltransferase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 27105-27111.	1.6	106
6	Parkinson-related LRRK2 mutation R1441C/G/H impairs PKA phosphorylation of LRRK2 and disrupts its interaction with 14-3-3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E34-43.	3.3	103
7	Structural basis for the assembly of the Sxl ⁺ Unr translation regulatory complex. <i>Nature</i> , 2014, 515, 287-290.	13.7	102
8	Bacterial encapsulins as orthogonal compartments for mammalian cell engineering. <i>Nature Communications</i> , 2018, 9, 1990.	5.8	88
9	On the routine use of soft X-rays in macromolecular crystallography. Part IV. Efficient determination of anomalous substructures in biomacromolecules using longer X-ray wavelengths. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 366-380.	2.5	82
10	High-throughput protein expression screening and purification in <i>Escherichia coli</i> . <i>Methods</i> , 2011, 55, 65-72.	1.9	80
11	Structural basis for RNA recognition in roquin-mediated post-transcriptional gene regulation. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 671-678.	3.6	77
12	The <i>Mycobacterium tuberculosis</i> LipB enzyme functions as a cysteine/lysine dyad acyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8662-8667.	3.3	68
13	The centrosome protein AKNA regulates neurogenesis via microtubule organization. <i>Nature</i> , 2019, 567, 113-117.	13.7	67
14	Optimization of protein buffer cocktails using ThermoFluor. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 209-214.	0.7	65
15	The impact of protein characterization in structural proteomics. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 1125-1136.	2.5	58
16	ROS-Mediated Inhibition of S-nitrosoglutathione Reductase Contributes to the Activation of Anti-oxidative Mechanisms. <i>Frontiers in Plant Science</i> , 2016, 7, 1669.	1.7	56
17	Brain-released alarmins and stress response synergize in accelerating atherosclerosis progression after stroke. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	54
18	Bisubstrate specificity in histidine/tryptophan biosynthesis isomerase from <i>Mycobacterium tuberculosis</i> by active site metamorphosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3554-3559.	3.3	53

#	ARTICLE	IF	CITATIONS
19	Segmental, Domain-Selective Perdeuteration and Small-Angle Neutron Scattering for Structural Analysis of Multi-Domain Proteins. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9322-9325.	7.2	52
20	Building the Stator of the Yeast Vacuolar-ATPase. <i>Journal of Biological Chemistry</i> , 2004, 279, 40670-40676.	1.6	49
21	Structure-function analysis of the DNA-binding domain of a transmembrane transcriptional activator. <i>Scientific Reports</i> , 2017, 7, 1051.	1.6	46
22	Solution Scattering Suggests Cross-linking Function of Telethonin in the Complex with Titin. <i>Journal of Biological Chemistry</i> , 2003, 278, 2636-2644.	1.6	45
23	Celastrol Promotes Weight Loss in Diet-Induced Obesity by Inhibiting the Protein Tyrosine Phosphatases PTP1B and TCPTP in the Hypothalamus. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11144-11157.	2.9	45
24	Total internal reflection (TIRF)-based quantification of procalcitonin for sepsis diagnosis – A point-of-care testing application. <i>Biosensors and Bioelectronics</i> , 2014, 59, 251-258.	5.3	44
25	Quinohaemoprotein Ethanol Dehydrogenase from <i>Comamonas testosteroni</i> . Purification, Characterization, and Reconstitution of the Apoenzyme with Pyrroloquinoline Quinone Analogues. <i>FEBS Journal</i> , 1995, 230, 899-905.	0.2	44
26	Galectin-3 Induces Clustering of CD147 and Integrin- β 1 Transmembrane Glycoprotein Receptors on the RPE Cell Surface. <i>PLoS ONE</i> , 2013, 8, e70011.	1.1	43
27	Enantioselective Conversions of the Racemic C3-Alcohol Synthons, Glycidol (2,3-Epoxy-1-propanol), and Solketal (2,2-Dimethyl-4-(hydroxymethyl)-1,3-dioxolane) by Quinohaemoprotein Alcohol Dehydrogenases and Bacteria Containing Such Enzymes. <i>Bioscience, Biotechnology and Biochemistry</i> , 1994, 58, 1028-1036.	0.6	41
28	Expression of protein complexes using multiple <i>Escherichia coli</i> protein co-expression systems: A benchmarking study. <i>Journal of Structural Biology</i> , 2011, 175, 159-170.	1.3	39
29	A new ELISA for the quantification of equine procalcitonin in plasma as potential inflammation biomarker in horses. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5507-5512.	1.9	38
30	The dynamics of linear polyubiquitin. <i>Science Advances</i> , 2020, 6, .	4.7	38
31	Interferon-induced degradation of the persistent hepatitis B virus cccDNA form depends on ISG20. <i>EMBO Reports</i> , 2021, 22, e49568.	2.0	38
32	Proteome-wide Identification of Glycosylation-dependent Interactors of Galectin-1 and Galectin-3 on Mesenchymal Retinal Pigment Epithelial (RPE) Cells. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1528-1546.	2.5	35
33	Biochemical Characterization of Haloalkane Dehalogenases DrbA and DmbC, Representatives of a Novel Subfamily. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5157-5160.	1.4	34
34	Epithelial-to-Mesenchymal Transition of RPE Cells In Vitro Confers Increased β 1,6-N-Glycosylation and Increased Susceptibility to Galectin-3 Binding. <i>PLoS ONE</i> , 2016, 11, e0146887.	1.1	34
35	An Aptamer against the Matrix Binding Domain on the Hepatitis B Virus Capsid Impairs Virion Formation. <i>Journal of Virology</i> , 2015, 89, 9281-9287.	1.5	29
36	Immune homeostasis and regulation of the interferon pathway require myeloid-derived Regnase-3. <i>Journal of Experimental Medicine</i> , 2019, 216, 1700-1723.	4.2	29

#	ARTICLE	IF	CITATIONS
37	Recombinant proteins fused to thermostable partners can be purified by heat incubation. <i>Journal of Biotechnology</i> , 2004, 107, 125-133.	1.9	28
38	Molecular basis for asymmetry sensing of siRNAs by the <i>Drosophila</i> Loqs-PD/Dcr-2 complex in RNA interference. <i>Nucleic Acids Research</i> , 2017, 45, 12536-12550.	6.5	27
39	Stoichiometric protein complex formation and overexpression using the prokaryotic native operon structure. <i>FEBS Letters</i> , 2010, 584, 669-674.	1.3	26
40	Structural studies on the enzyme complex isopropylmalate isomerase (LeuCD) from <i>Mycobacterium tuberculosis</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 35-49.	1.5	26
41	Inhibition of Canonical NF- κ B Signaling by a Small Molecule Targeting NEMO-Ubiquitin Interaction. <i>Scientific Reports</i> , 2016, 6, 18934.	1.6	26
42	Factors relevant to the production of (R)-(+)-glycidol (2,3-epoxy-1-propanol) from racemic glycidol by enantioselective oxidation with <i>Acetobacter pasteurianus</i> ATCC 12874. <i>Enzyme and Microbial Technology</i> , 1994, 16, 1059-1063.	1.6	25
43	Baculovirus-driven protein expression in insect cells: A benchmarking study. <i>Journal of Structural Biology</i> , 2018, 203, 71-80.	1.3	24
44	Orphan GPR116 mediates the insulin sensitizing effects of the hepatokine FNDC4 in adipose tissue. <i>Nature Communications</i> , 2021, 12, 2999.	5.8	22
45	Pitchfork and Gprasp2 Target Smoothed to the Primary Cilium for Hedgehog Pathway Activation. <i>PLoS ONE</i> , 2016, 11, e0149477.	1.1	21
46	Cryoenzymic Studies on Yeast 3-Phosphoglycerate Kinase. Attempt To Obtain the Kinetics of the Hinge-Bending Motion. <i>Biochemistry</i> , 1997, 36, 5538-5545.	1.2	17
47	Methods for the determination of the enantiomeric purity of the C3-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane]. <i>Journal of Chromatography A</i> , 1993, 648, 119-129.	1.8	16
48	Structural Analysis of Protein-RNA Complexes in Solution Using NMR Paramagnetic Relaxation Enhancements. <i>Methods in Enzymology</i> , 2015, 558, 333-362.	0.4	16
49	Novel small molecules targeting ciliary transport of Smoothed and oncogenic Hedgehog pathway activation. <i>Scientific Reports</i> , 2016, 6, 22540.	1.6	16
50	Pathological ASXL1 Mutations and Protein Variants Impair Neural Crest Development. <i>Stem Cell Reports</i> , 2019, 12, 861-868.	2.3	16
51	Trnp1 organizes diverse nuclear membrane-less compartments in neural stem cells. <i>EMBO Journal</i> , 2020, 39, e103373.	3.5	16
52	Structural characterization of a D-isomer specific 2-hydroxyacid dehydrogenase from <i>Lactobacillus delbrueckii</i> ssp. <i>bulgaricus</i> . <i>Journal of Structural Biology</i> , 2013, 181, 179-184.	1.3	15
53	Perturbation of Yeast 3-Phosphoglycerate Kinase Reaction Mixtures with ADP: Transient Kinetics of Formation of ATP from Bound 1,3-Bisphosphoglycerate. <i>Biochemistry</i> , 2005, 44, 14948-14955.	1.2	13
54	Dissecting the molecular effects of cigarette smoke on proteasome function. <i>Journal of Proteomics</i> , 2019, 193, 1-9.	1.2	13

#	ARTICLE	IF	CITATIONS
55	The Pathologic Effect of a Novel Neomorphic Fgf9Y162C Allele Is Restricted to Decreased Vision and Retarded Lens Growth. PLoS ONE, 2011, 6, e23678.	1.1	9
56	Cubic crystals of phosphopantetheine adenylyltransferase from Escherichia coli. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1226-1228.	2.5	8
57	Expression, purification, crystallization and preliminary X-ray crystallographic analysis of a resuscitation-promoting factor from Mycobacterium tuberculosis. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 870-873.	0.7	6
58	Entropic And Enthalpic Contributions To The Enantioselectivity Of Quinohaemoprotein Alcohol Dehydrogenases From <i>Acetobacter Pasteurianus</i> And <i>Comamonas Testosteroni</i> In The Oxidation Of Primary And Secondary Alcohols. Biocatalysis and Biotransformation, 1999, 17, 179-207.	1.1	5
59	Efficient expression and purification of tag-free Epstein-Barr virus EBNA1 protein in Escherichia coli by auto-induction. Protein Expression and Purification, 2012, 86, 7-11.	0.6	5
60	Segmental, Domain-Selective perdeuteration and Small-Angle Neutron Scattering for Structural Analysis of Multi-Domain Proteins. Angewandte Chemie, 2017, 129, 9450-9453.	1.6	4
61	Generation of a heterozygous C-peptide-mCherry reporter human iPSC line (HMGUi001-A-8). Stem Cell Research, 2021, 50, 102126.	0.3	3
62	Galectin-1 and -3 in high amounts inhibit angiogenic properties of human retinal microvascular endothelial cells in vitro. PLoS ONE, 2022, 17, e0265805.	1.1	3
63	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of the small subunit of isopropylmalate isomerase (Rv2987c) from <i>Mycobacterium tuberculosis</i> . Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 136-139.	0.7	1
64	Collagen VI Regulates Motor Circuit Plasticity and Motor Performance by Cannabinoid Modulation. Journal of Neuroscience, 2022, 42, 1557-1573.	1.7	1