Christian Freund

List of Publications by Year
in descending order

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62	2,156	331670 21	265206 42
papers	citations	h-index	g-index

70	70	70	3287
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Major Histocompatibility Complex (MHC) Class I and MHC Class II Proteins: Conformational Plasticity in Antigen Presentation. Frontiers in Immunology, 2017, 8, 292.	4.8	657
2	Protein-peptide association kinetics beyond the seconds timescale from atomistic simulations. Nature Communications, 2017, 8, 1095.	12.8	137
3	Directed Evolution of Sortase A Mutants with Altered Substrate Selectivity Profiles. Journal of the American Chemical Society, 2011, 133, 17536-17539.	13.7	109
4	Development of an antibody-based, modular biosensor for¹²⁹Xe NMR molecular imaging of cells at nanomolar concentrations. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11697-11702.	7.1	98
5	A Xenonâ€129 Biosensor for Monitoring MHCâ€"Peptide Interactions. Angewandte Chemie - International Edition, 2009, 48, 4142-4145.	13.8	80
6	Bidirectional binding of invariant chain peptides to an MHC class II molecule. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22219-22224.	7.1	67
7	Susceptibility to HLA-DM Protein Is Determined by a Dynamic Conformation of Major Histocompatibility Complex Class II Molecule Bound with Peptide. Journal of Biological Chemistry, 2014, 289, 23449-23464.	3.4	49
8	Intersectin associates with synapsin and regulates its nanoscale localization and function. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12057-12062.	7.1	47
9	Vesicle uncoating regulated by <scp>SH</scp> 3â€•<scp>SH</scp> 3 domainâ€mediated complex formation between endophilin and intersectin at synapses. EMBO Reports, 2015, 16, 232-239.	4.5	40
10	MHC class II complexes sample intermediate states along the peptide exchange pathway. Nature Communications, 2016, 7, 13224.	12.8	40
11	Quantitative analysis of the human T cell palmitome. Scientific Reports, 2015, 5, 11598.	3.3	38
12	Quantification of HLA-DM-Dependent Major Histocompatibility Complex of Class II Immunopeptidomes by the Peptide Landscape Antigenic Epitope Alignment Utility. Frontiers in Immunology, 2018, 9, 872.	4.8	38
13	Intramolecular domain dynamics regulate synaptic MAGUK protein interactions. ELife, 2019, 8, .	6.0	33
14	A Coincidence Detection Mechanism Controls PX-BAR Domain-Mediated Endocytic Membrane Remodeling via an Allosteric Structural Switch. Developmental Cell, 2017, 43, 522-529.e4.	7.0	32
15	Characterization of Structural Features Controlling the Receptiveness of Empty Class II MHC Molecules. PLoS ONE, 2011, 6, e18662.	2.5	31
16	Human leukocyte Antigen-DM polymorphisms in autoimmune diseases. Open Biology, 2016, 6, 160165.	3.6	29
17	Engineered Sortases in Peptide and Protein Chemistry. ChemBioChem, 2021, 22, 1347-1356.	2.6	29
18	Identification of sortase substrates by specificity profiling. Bioorganic and Medicinal Chemistry, 2017, 25, 5002-5007.	3.0	28

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19	HLA-DMA Polymorphisms Differentially Affect MHC Class II Peptide Loading. Journal of Immunology, 2015, 194, 803-816.	0.8	26
20	Engineering sortase A by screening a secondâ€generation library using phage display. Journal of Peptide Science, 2017, 23, 631-635.	1.4	25
21	The differentiation and plasticity of Tc17 cells are regulated by CTLA-4-mediated effects on STATs. OncoImmunology, 2017, 6, e1273300.	4.6	24
22	A new role for FBP21 as regulator of Brr2 helicase activity. Nucleic Acids Research, 2017, 45, 7922-7937.	14.5	24
23	Major histocompatibility complex (MHC) class I and class II proteins: impact of polymorphism on antigen presentation. Current Opinion in Immunology, 2021, 70, 95-104.	5.5	23
24	Understanding the elusive protein corona of thermoresponsive nanogels. Nanomedicine, 2018, 13, 2657-2668.	3.3	22
25	Intersectin-Mediated Clearance of SNARE Complexes Is Required for Fast Neurotransmission. Cell Reports, 2020, 30, 409-420.e6.	6.4	22
26	The Na,K-ATPase acts upstream of phosphoinositide PI(4,5)P2 facilitating unconventional secretion of Fibroblast Growth Factor 2. Communications Biology, 2020, 3, 141.	4.4	21
27	Filamin A Phosphorylation at Serine 2152 by the Serine/Threonine Kinase Ndr2 Controls TCR-Induced LFA-1 Activation in T Cells. Frontiers in Immunology, 2018, 9, 2852.	4.8	20
28	Blood Flow Suppresses Vascular Anomalies in a Zebrafish Model of Cerebral Cavernous Malformations. Circulation Research, 2019, 125, e43-e54.	4.5	20
29	Revisiting nonclassical <scp>HLA II</scp> functions in antigen presentation: Peptide editing and its modulation. Hla, 2020, 96, 415-429.	0.6	20
30	Exchange catalysis by tapasin exploits conserved and allele-specific features of MHC-I molecules. Nature Communications, 2021, 12, 4236.	12.8	20
31	Dynamic palmitoylation events following T-cell receptor signaling. Communications Biology, 2020, 3, 368.	4.4	19
32	Structure-Function Relationship of XCL1 Used for in vivo Targeting of Antigen Into XCR1+ Dendritic Cells. Frontiers in Immunology, 2018, 9, 2806.	4.8	17
33	Distinct editing functions of natural HLA-DM allotypes impact antigen presentation and CD4+ T cell activation. Cellular and Molecular Immunology, 2020, 17, 133-142.	10.5	17
34	Intrinsically Disordered Protein Ntr2 Modulates the Spliceosomal RNA Helicase Brr2. Biophysical Journal, 2018, 114, 788-799.	0.5	15
35	Epilepsy-causing STX1B mutations translate altered protein functions into distinct phenotypes in mouse neurons. Brain, 2020, 143, 2119-2138.	7.6	15
36	Sortaseâ€Mediated Multiâ€Fragment Assemblies by Ligation Site Switching. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14

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37	Splicing-accessible coding 3â€²UTRs control protein stability and interaction networks. Genome Biology, 2020, 21, 186.	8.8	13
38	The Multiple Roles of the Cytosolic Adapter Proteins ADAP, SKAP1 and SKAP2 for TCR/CD3 -Mediated Signaling Events. Frontiers in Immunology, 2021, 12, 703534.	4.8	13
39	Exploring monovalent and multivalent peptides for the inhibition of FBP21-tWW. Beilstein Journal of Organic Chemistry, 2015, 11, 701-706.	2.2	12
40	Peptideâ€“polymer ligands for a tandem WW-domain, an adaptive multivalent proteinâ€“protein interaction: lessons on the thermodynamic fitness of flexible ligands. Beilstein Journal of Organic Chemistry, 2015, 11, 837-847.	2.2	11
41	D120 and K152 within the PH Domain of T Cell Adapter SKAP55 Regulate Plasma Membrane Targeting of SKAP55 and LFA-1 Affinity Modulation in Human T Lymphocytes. Molecular and Cellular Biology, 2017, 37, .	2.3	11
42	The intrinsically disordered TSSC4 protein acts as a helicase inhibitor, placeholder and multi-interaction coordinator during snRNP assembly and recycling. Nucleic Acids Research, 2022, 50, 2938-2958.	14.5	11
43	The GYF domain protein CD2BP2 is critical for embryogenesis and podocyte function. Journal of Molecular Cell Biology, 2015, 7, 402-414.	3.3	9
44	CD4+ Th immunogenicity of the Ascaris spp. secreted products. Npj Vaccines, 2020, 5, 25.	6.0	9
45	Analysis of Phosphorylation-dependent Protein Interactions of Adhesion and Degranulation Promoting Adaptor Protein (ADAP) Reveals Novel Interaction Partners Required for Chemokine-directed T cell Migration. Molecular and Cellular Proteomics, 2015, 14, 2961-2972.	3.8	8
46	Human Hepatitis B Viral Infection Outcomes Are Linked to Naturally Occurring Variants of HLA-DOA That Have Altered Function. Journal of Immunology, 2020, 205, 923-935.	0.8	8
47	Synthesis and functionalization of dendritic polyglycerol-based nanogels: application in T cell activation. Journal of Materials Chemistry B, 2021, 10, 96-106.	5.8	8
48	Functional analysis of peripheral and intratumoral neoantigen-specific TCRs identified in a patient with melanoma. , 2021, 9, e002754.		7
49	A multi-factor trafficking site on the spliceosome remodeling enzyme BRR2 recruits C9ORF78 to regulate alternative splicing. Nature Communications, 2022, 13, 1132.	12.8	7
50	The synaptic scaffold protein MPP2 interacts with GABAA receptors at the periphery of the postsynaptic density of glutamatergic synapses. PLoS Biology, 2022, 20, e3001503.	5.6	6
51	A Missing Switch in Peptide Exchange for MHC Class II Molecules. Frontiers in Immunology, 2019, 10, 2513.	4.8	5
52	Phosphorylation of the Bruchpilot N-terminus unlocks axonal transport of active zone building blocks. Journal of Cell Science, 2019, 132, .	2.0	5
53	Tyrosine-phosphorylation of the scaffold protein ADAP and its role in T cell signaling. Expert Review of Proteomics, 2016, 13, 545-554.	3.0	4
54	The guanine-nucleotide exchange factor CalDAG GEFI fine-tunes functional properties of regulatory T cells. European Journal of Microbiology and Immunology, 2017, 7, 112-126.	2.8	4

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55	Exon Inclusion Modulates Conformational Plasticity and Autoinhibition of the Intersectin 1 SH3A Domain. Structure, 2019, 27, 977-987.e5.	3.3	4
56	<scp>NS1</scp> â€mediated upregulation of <scp>ZDHHC22</scp> acyltransferase in influenza a virus infected cells. Cellular Microbiology, 2021, 23, e13322.	2.1	4
57	The GTPase ARFRP1 affects lipid droplet protein composition and triglyceride release from intracellular storage of intestinal Caco-2 cells. Biochemical and Biophysical Research Communications, 2018, 506, 259-265.	2.1	3
58	Target Recognition in Tandem WW Domains: Complex Structures for Parallel and Antiparallel Ligand Orientation in h-FBP21 Tandem WW. Journal of Chemical Information and Modeling, 2022, 62, 6586-6601.	5.4	3
59	FBP21â€™s C-Terminal Domain Remains Dynamic When Wrapped around the c-Sec63ÂUnit of Brr2 Helicase. Biophysical Journal, 2019, 116, 406-418.	0.5	2
60	Sortaseâ€vermittelte Multiâ€Fragmentâ€Kopplung durch Ligationsstellenâ€Schaltung. Angewandte Chemie, 2022, 134, e202109032.	2.0	2
61	RÃ¼cktitelbild: Cell Tracking with Caged Xenon: Using Cryptophanes as MRI Reporters upon Cellular Internalization (Angew. Chem. 2/2014). Angewandte Chemie, 2014, 126, 612-612.	2.0	0
62	Imaging Human Immune Cell Infiltration in a Xenograft Graft-Versus-Host Disease Model. Blood, 2016, 128, 5720-5720.	1.4	0