

Matthias Geyer

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

6,362
citations

81900

39
h-index

82547

72
g-index

80
all docs

80
docs citations

80
times ranked

10213
citing authors

#	ARTICLE	IF	CITATIONS
1	Microglia-derived ASC specks cross-seed amyloid- β^2 in Alzheimer's disease. <i>Nature</i> , 2017, 552, 355-361.	27.8	664
2	The RNA Polymerase II Carboxy-Terminal Domain (CTD) Code. <i>Chemical Reviews</i> , 2013, 113, 8456-8490.	47.7	368
3	Structure-function relationships in HIV-1 Nef. <i>EMBO Reports</i> , 2001, 2, 580-585.	4.5	333
4	Structure-guided multivalent nanobodies block SARS-CoV-2 infection and suppress mutational escape. <i>Science</i> , 2021, 371, .	12.6	304
5	NLRP3 inflammasome assembly is regulated by phosphorylation of the pyrin domain. <i>Journal of Experimental Medicine</i> , 2017, 214, 1725-1736.	8.5	270
6	Covalent targeting of remote cysteine residues to develop CDK12 and CDK13 inhibitors. <i>Nature Chemical Biology</i> , 2016, 12, 876-884.	8.0	249
7	Formins as effector proteins of Rho GTPases. <i>Small GTPases</i> , 2014, 5, e983876.	1.6	219
8	CDK12 Inhibition Reverses De Novo and Acquired PARP Inhibitor Resistance in BRCA Wild-Type and Mutated Models of Triple-Negative Breast Cancer. <i>Cell Reports</i> , 2016, 17, 2367-2381.	6.4	215
9	Rational discovery of molecular glue degraders via scalable chemical profiling. <i>Nature Chemical Biology</i> , 2020, 16, 1199-1207.	8.0	197
10	FMNL2 Drives Actin-Based Protrusion and Migration Downstream of Cdc42. <i>Current Biology</i> , 2012, 22, 1005-1012.	3.9	184
11	Brd4 activates P-TEFb for RNA polymerase II CTD phosphorylation. <i>Nucleic Acids Research</i> , 2014, 42, 7577-7590.	14.5	184
12	CDK12 loss in cancer cells affects DNA damage response genes through premature cleavage and polyadenylation. <i>Nature Communications</i> , 2019, 10, 1757.	12.8	159
13	Serine-7 but not serine-5 phosphorylation primes RNA polymerase II CTD for P-TEFb recognition. <i>Nature Communications</i> , 2012, 3, 842.	12.8	151
14	The structure and substrate specificity of human Cdk12/Cyclin K. <i>Nature Communications</i> , 2014, 5, 3505.	12.8	141
15	Structural and Functional Analysis of the Cdk13/Cyclin K Complex. <i>Cell Reports</i> , 2016, 14, 320-331.	6.4	116
16	FMNL formins boost lamellipodial force generation. <i>Nature Communications</i> , 2017, 8, 14832.	12.8	112
17	β^2 -Amyloid Clustering around ASC Fibrils Boosts Its Toxicity in Microglia. <i>Cell Reports</i> , 2020, 30, 3743-3754.e6.	6.4	109
18	Structure of the NLRP3 decamer bound to the cytokine release inhibitor CRID3. <i>Nature</i> , 2022, 604, 184-189.	27.8	109

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19	Structure of the anchor-domain of myristoylated and non-myristoylated HIV-1 Nef protein 1 Edited by A. R. Fersht. <i>Journal of Molecular Biology</i> , 1999, 289, 123-138.	4.2	107
20	Ovarian carcinoma CDK12 mutations misregulate expression of DNA repair genes via deficient formation and function of the Cdk12/CycK complex. <i>Nucleic Acids Research</i> , 2015, 43, 2575-2589.	14.5	107
21	P-TEFb regulation of transcription termination factor Xrn2 revealed by a chemical genetic screen for Cdk9 substrates. <i>Genes and Development</i> , 2016, 30, 117-131.	5.9	105
22	Acetylation of RNA Polymerase II Regulates Growth-Factor-Induced Gene Transcription in Mammalian Cells. <i>Molecular Cell</i> , 2013, 52, 314-324.	9.7	103
23	Development of a Selective CDK7 Covalent Inhibitor Reveals Predominant Cell-Cycle Phenotype. <i>Cell Chemical Biology</i> , 2019, 26, 792-803.e10.	5.2	103
24	MYC Recruits SPT5 to RNA Polymerase II to Promote Processive Transcription Elongation. <i>Molecular Cell</i> , 2019, 74, 674-687.e11.	9.7	89
25	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. <i>Nature Chemical Biology</i> , 2010, 6, 46-53.	8.0	88
26	1,6-Hexanediol, commonly used to dissolve liquidâ€“liquid phase separated condensates, directly impairs kinase and phosphatase activities. <i>Journal of Biological Chemistry</i> , 2021, 296, 100260.	3.4	84
27	CD155 on Tumor Cells Drives Resistance to Immunotherapy by Inducing the Degradation of the Activating Receptor CD226 in CD8+ T Cells. <i>Immunity</i> , 2020, 53, 805-823.e15.	14.3	79
28	CDK13 cooperates with CDK12 to control global RNA polymerase II processivity. <i>Science Advances</i> , 2020, 6, .	10.3	79
29	Nef Proteins of Epidemic HIV-1 Group O Strains Antagonize Human Tetherin. <i>Cell Host and Microbe</i> , 2014, 16, 639-650.	11.0	77
30	FHOD1 is a combined actin filament capping and bundling factor that selectively associates with actin arcs and stress fibers. <i>Journal of Cell Science</i> , 2013, 126, 1891-901.	2.0	74
31	P-TEFb Activation by RBM7 Shapes a Pro-survival Transcriptional Response to Genotoxic Stress. <i>Molecular Cell</i> , 2019, 74, 254-267.e10.	9.7	73
32	The bromodomain inhibitor JQ1 triggers growth arrest and apoptosis in testicular germ cell tumours <i>in vitro</i> and <i>in vivo</i> . <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1300-1314.	3.6	69
33	Discovery and resistance mechanism of a selective CDK12 degrader. <i>Nature Chemical Biology</i> , 2021, 17, 675-683.	8.0	69
34	Specific and distinct determinants mediate membrane binding and lipid raft incorporation of HIV-1SF2 Nef. <i>Virology</i> , 2006, 355, 175-191.	2.4	66
35	The structure of FMNL2â€“Cdc42 yields insights into the mechanism of lamellipodia and filopodia formation. <i>Nature Communications</i> , 2015, 6, 7088.	12.8	63
36	Mechanisms of NLRP1-Mediated Autoinflammatory Disease in Humans and Mice. <i>Journal of Molecular Biology</i> , 2018, 430, 142-152.	4.2	63

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37	Biochemical Indication for Myristoylation-Dependent Conformational Changes in HIV-1 Nef. <i>Biochemistry</i> , 2006, 45, 2339-2349.	2.5	58
38	SOCS1 and SOCS3 Target IRF7 Degradation To Suppress TLR7-Mediated Type I IFN Production of Human Plasmacytoid Dendritic Cells. <i>Journal of Immunology</i> , 2018, 200, 4024-4035.	0.8	53
39	Selective inhibition of CDK7 reveals high-confidence targets and new models for TFIIH function in transcription. <i>Genes and Development</i> , 2020, 34, 1452-1473.	5.9	47
40	LAMP-Seq enables sensitive, multiplexed COVID-19 diagnostics using molecular barcoding. <i>Nature Biotechnology</i> , 2021, 39, 1556-1562.	17.5	46
41	Biophysical Analysis of the Interaction of Rab6a GTPase with Its Effector Domains. <i>Journal of Biological Chemistry</i> , 2009, 284, 2628-2635.	3.4	44
42	Alternative splicing regulates stochastic NLRP3 activity. <i>Nature Communications</i> , 2019, 10, 3238.	12.8	44
43	Deficiency in coatomer complex I causes aberrant activation of STING signalling. <i>Nature Communications</i> , 2022, 13, 2321.	12.8	43
44	Global mapping of Salmonella enterica-host protein-protein interactions during infection. <i>Cell Host and Microbe</i> , 2021, 29, 1316-1332.e12.	11.0	39
45	Conformation of the Dileucine-Based Sorting Motif in HIV-1 Nef Revealed by Intermolecular Domain Assembly. <i>Traffic</i> , 2011, 12, 867-877.	2.7	29
46	Structure-activity relationship study of THZ531 derivatives enables the discovery of BSJ-01-175 as a dual CDK12/13 covalent inhibitor with efficacy in Ewing sarcoma. <i>European Journal of Medicinal Chemistry</i> , 2021, 221, 113481.	5.5	27
47	Endocytic sorting motif interactions involved in Nef-mediated downmodulation of CD4 and CD3. <i>Nature Communications</i> , 2017, 8, 442.	12.8	26
48	Directionality of PYD filament growth determined by the transition of NLRP3 nucleation seeds to ASC elongation. <i>Science Advances</i> , 2022, 8, eabn7583.	10.3	24
49	The mRNA repressor TRIM71 cooperates with Nonsense-Mediated Decay factors to destabilize the mRNA of CDKN1A/p21. <i>Nucleic Acids Research</i> , 2019, 47, 11861-11879.	14.5	22
50	Species-specific differences in nonlysosomal glucosylceramidase GBA2 function underlie locomotor dysfunction arising from loss-of-function mutations. <i>Journal of Biological Chemistry</i> , 2019, 294, 3853-3871.	3.4	20
51	Structural basis for the inhibition of HIV-1 Nef by a high-affinity binding single-domain antibody. <i>Retrovirology</i> , 2014, 11, 24.	2.0	18
52	Efficient Vpu-Mediated Tetherin Antagonism by an HIV-1 Group O Strain. <i>Journal of Virology</i> , 2017, 91, .	3.4	17
53	Crystal structure of the human NLRP9 pyrin domain suggests a distinct mode of inflammasome assembly. <i>FEBS Letters</i> , 2020, 594, 2383-2395.	2.8	17
54	Recessive NLRC4-Autoinflammatory Disease Reveals an Ulcerative Colitis Locus. <i>Journal of Clinical Immunology</i> , 2022, 42, 325-335.	3.8	17

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55	Distribution of formins in cardiac muscle: FHOD1 is a component of intercalated discs and costameres. <i>European Journal of Cell Biology</i> , 2015, 94, 101-113.	3.6	16
56	Abemaciclib is a potent inhibitor of DYRK1A and HIP kinases involved in transcriptional regulation. <i>Nature Communications</i> , 2021, 12, 6607.	12.8	15
57	HIV-1 Myristoylated Nef Treatment of Murine Microglial Cells Activates Inducible Nitric Oxide Synthase, NO ₂ Production and Neurotoxic Activity. <i>PLoS ONE</i> , 2015, 10, e0130189.	2.5	14
58	MIR sequences recruit zinc finger protein ZNF768 to expressed genes. <i>Nucleic Acids Research</i> , 2019, 47, 700-715.	14.5	14
59	NLRP1 variant M1184V decreases inflammasome activation in the context of DPP9 inhibition and asthma severity. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 2134-2145.e20.	2.9	11
60	Functional characterization of the human Cdk10/Cyclin Q complex. <i>Open Biology</i> , 2022, 12, 210381.	3.6	10
61	Nef Surfaces: Where to Interfere with Function. <i>Current HIV Research</i> , 2011, 9, 543-551.	0.5	9
62	The formin <i>Drosophila</i> homologue of Diaphanous2 (Diaph2) controls microtubule dynamics in colorectal cancer cells independent of its FH2-domain. <i>Scientific Reports</i> , 2019, 9, 5352.	3.3	9
63	Four hypotrichosis families with mutations in the gene <i>LSS</i> presenting with and without neurodevelopmental phenotypes. <i>American Journal of Medical Genetics, Part A</i> , 2021, 185, 3900-3904.	1.2	9
64	Reduced Susceptibility to VIRIP-Based HIV-1 Entry Inhibitors Has a High Genetic Barrier and Severe Fitness Costs. <i>Journal of Virology</i> , 2018, 92, .	3.4	8
65	Development of Fluorescent and Biotin Probes Targeting NLRP3. <i>Frontiers in Chemistry</i> , 2021, 9, 642273.	3.6	8
66	Integration of Cardiac Actin Mutants Causing Hypertrophic (p.A295S) and Dilated Cardiomyopathy (p.R312H and p.E361G) into Cellular Structures. <i>Antioxidants</i> , 2021, 10, 1082.	5.1	5
67	Sensitizing HR-proficient cancers to PARP inhibitors. <i>Molecular and Cellular Oncology</i> , 2017, 4, e1299272.	0.7	4
68	Transcriptional CDK Inhibitors as Potential Treatment Option for Testicular Germ Cell Tumors. <i>Cancers</i> , 2022, 14, 1690.	3.7	3
69	Functional Characterization of Cardiac Actin Mutants Causing Hypertrophic (p.A295S) and Dilated Cardiomyopathy (p.R312H and p.E361G). <i>International Journal of Molecular Sciences</i> , 2022, 23, 4465.	4.1	3
70	Structure-Stability Relationship of NLRP3 Inflammasome-Inhibiting Sulfonylureas. <i>ACS Omega</i> , 2022, 7, 8158-8162.	3.5	2
71	An Assay for the Seeding of Homotypic Pyrin Domain Filament Transitions. <i>Methods in Molecular Biology</i> , 2022, , 197-207.	0.9	2