Matthias Geyer

List of Publications by Year in descending order

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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	Recessive NLRC4-Autoinflammatory Disease Reveals an Ulcerative Colitis Locus. Journal of Clinical Immunology, 2022, 42, 325-335.	3.8	17
2	Structure of the NLRP3 decamer bound to the cytokine release inhibitor CRID3. Nature, 2022, 604, 184-189.	27.8	109
3	Structureâ€“Stability Relationship of NLRP3 Inflammasome-Inhibiting Sulfonylureas. ACS Omega, 2022, 7, 8158-8162.	3.5	2
4	Transcriptional CDK Inhibitors as Potential Treatment Option for Testicular Germ Cell Tumors. Cancers, 2022, 14, 1690.	3.7	3
5	Functional characterization of the human Cdk10/Cyclin Q complex. Open Biology, 2022, 12, 210381.	3.6	10
6	Functional Characterization of Cardiac Actin Mutants Causing Hypertrophic (p.A295S) and Dilated Cardiomyopathy (p.R312H and p.E361G). International Journal of Molecular Sciences, 2022, 23, 4465.	4.1	3
7	Deficiency in coatomer complex I causes aberrant activation of STING signalling. Nature Communications, 2022, 13, 2321.	12.8	43
8	Directionality of PYD filament growth determined by the transition of NLRP3 nucleation seeds to ASC elongation. Science Advances, 2022, 8, eabn7583.	10.3	24
9	An Assay for the Seeding of Homotypic Pyrin Domain Filament Transitions. Methods in Molecular Biology, 2022, , 197-207.	0.9	2
10	Structure-guided multivalent nanobodies block SARS-CoV-2 infection and suppress mutational escape. Science, 2021, 371, .	12.6	304
11	Discovery and resistance mechanism of a selective CDK12 degrader. Nature Chemical Biology, 2021, 17, 675-683.	8.0	69
12	Development of Fluorescent and Biotin Probes Targeting NLRP3. Frontiers in Chemistry, 2021, 9, 642273.	3.6	8
13	NLRP1 variant M1184V decreases inflammasome activation in the context of DPP9 inhibition and asthma severity. Journal of Allergy and Clinical Immunology, 2021, 147, 2134-2145.e20.	2.9	11
14	LAMP-Seq enables sensitive, multiplexed COVID-19 diagnostics using molecular barcoding. Nature Biotechnology, 2021, 39, 1556-1562.	17.5	46
15	Four hypotrichosis families with mutations in the gene <scp>LSS</scp> presenting with and without neurodevelopmental phenotypes. American Journal of Medical Genetics, Part A, 2021, 185, 3900-3904.	1.2	9
16	Integration of Cardiac Actin Mutants Causing Hypertrophic (p.A295S) and Dilated Cardiomyopathy (p.R312H and p.E361G) into Cellular Structures. Antioxidants, 2021, 10, 1082.	5.1	5
17	Global mapping of Salmonella enterica-host protein-protein interactions during infection. Cell Host and Microbe, 2021, 29, 1316-1332.e12.	11.0	39
18	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. European Journal of Medicinal Chemistry, 2021, 221, 113481.	5.5	27

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19	1,6-Hexanediol, commonly used to dissolve liquidâ€“liquid phase separated condensates, directly impairs kinase and phosphatase activities. Journal of Biological Chemistry, 2021, 296, 100260.	3.4	84
20	Abemaciclib is a potent inhibitor of DYRK1A and HIP kinases involved in transcriptional regulation. Nature Communications, 2021, 12, 6607.	12.8	15
21	Selective inhibition of CDK7 reveals high-confidence targets and new models for TFIIH function in transcription. Genes and Development, 2020, 34, 1452-1473.	5.9	47
22	CD155 on Tumor Cells Drives Resistance to Immunotherapy by Inducing the Degradation of the Activating Receptor CD226 in CD8+ TÂCells. Immunity, 2020, 53, 805-823.e15.	14.3	79
23	Rational discovery of molecular glue degraders via scalable chemical profiling. Nature Chemical Biology, 2020, 16, 1199-1207.	8.0	197
24	CDK13 cooperates with CDK12 to control global RNA polymerase II processivity. Science Advances, 2020, 6, .	10.3	79
25	Crystal structure of the human NLRP9 pyrin domain suggests a distinct mode of inflammasome assembly. FEBS Letters, 2020, 594, 2383-2395.	2.8	17
26	Î²-Amyloid Clustering around ASC Fibrils Boosts Its Toxicity in Microglia. Cell Reports, 2020, 30, 3743-3754.e6.	6.4	109
27	Alternative splicing regulates stochastic NLRP3 activity. Nature Communications, 2019, 10, 3238.	12.8	44
28	The mRNA repressor TRIM71 cooperates with Nonsense-Mediated Decay factors to destabilize the mRNA of CDKN1A/p21. Nucleic Acids Research, 2019, 47, 11861-11879.	14.5	22
29	Species-specific differences in nonlysosomal glucosylceramidase GBA2 function underlie locomotor dysfunction arising from loss-of-function mutations. Journal of Biological Chemistry, 2019, 294, 3853-3871.	3.4	20
30	CDK12 loss in cancer cells affects DNA damage response genes through premature cleavage and polyadenylation. Nature Communications, 2019, 10, 1757.	12.8	159
31	Development of a Selective CDK7 Covalent Inhibitor Reveals Predominant Cell-Cycle Phenotype. Cell Chemical Biology, 2019, 26, 792-803.e10.	5.2	103
32	MYC Recruits SPT5 to RNA Polymerase II to Promote Processive Transcription Elongation. Molecular Cell, 2019, 74, 674-687.e11.	9.7	89
33	The formin Drosophila homologue of Diaphanous2 (Diaph2) controls microtubule dynamics in colorectal cancer cells independent of its FH2-domain. Scientific Reports, 2019, 9, 5352.	3.3	9
34	P-TEFb Activation by RBM7 Shapes a Pro-survival Transcriptional Response to Genotoxic Stress. Molecular Cell, 2019, 74, 254-267.e10.	9.7	73
35	MIR sequences recruit zinc finger protein ZNF768 to expressed genes. Nucleic Acids Research, 2019, 47, 700-715.	14.5	14
36	SOCS1 and SOCS3 Target IRF7 Degradation To Suppress TLR7-Mediated Type I IFN Production of Human Plasmacytoid Dendritic Cells. Journal of Immunology, 2018, 200, 4024-4035.	0.8	53

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37	Mechanisms of NLRP1-Mediated Autoinflammatory Disease in Humans and Mice. Journal of Molecular Biology, 2018, 430, 142-152.	4.2	63
38	Reduced Susceptibility to VIRIP-Based HIV-1 Entry Inhibitors Has a High Genetic Barrier and Severe Fitness Costs. Journal of Virology, 2018, 92, .	3.4	8
39	Efficient Vpu-Mediated Tetherin Antagonism by an HIV-1 Group O Strain. Journal of Virology, 2017, 91, .	3.4	17
40	NLRP3 inflammasome assembly is regulated by phosphorylation of the pyrin domain. Journal of Experimental Medicine, 2017, 214, 1725-1736.	8.5	270
41	FMNL formins boost lamellipodial force generation. Nature Communications, 2017, 8, 14832.	12.8	112
42	Sensitizing HR-proficient cancers to PARP inhibitors. Molecular and Cellular Oncology, 2017, 4, e1299272.	0.7	4
43	The bromodomain inhibitor JQ1 triggers growth arrest and apoptosis in testicular germ cell tumours in vitro and in vivo. Journal of Cellular and Molecular Medicine, 2017, 21, 1300-1314.	3.6	69
44	Endocytic sorting motif interactions involved in Nef-mediated downmodulation of CD4 and CD3. Nature Communications, 2017, 8, 442.	12.8	26
45	Microglia-derived ASC specks cross-seed amyloid-Î² in Alzheimerâ€™s disease. Nature, 2017, 552, 355-361.	27.8	664
46	Covalent targeting of remote cysteine residues to develop CDK12 and CDK13 inhibitors. Nature Chemical Biology, 2016, 12, 876-884.	8.0	249
47	CDK12 Inhibition Reverses De Novo and Acquired PARP Inhibitor Resistance in BRCA Wild-Type and Mutated Models of Triple-Negative Breast Cancer. Cell Reports, 2016, 17, 2367-2381.	6.4	215
48	Structural and Functional Analysis of the Cdk13/Cyclin K Complex. Cell Reports, 2016, 14, 320-331.	6.4	116
49	P-TEFb regulation of transcription termination factor Xrn2 revealed by a chemical genetic screen for Cdk9 substrates. Genes and Development, 2016, 30, 117-131.	5.9	105
50	HIV-1 Myristoylated Nef Treatment of Murine Microglial Cells Activates Inducible Nitric Oxide Synthase, NO2 Production and Neurotoxic Activity. PLoS ONE, 2015, 10, e0130189.	2.5	14
51	Ovarian carcinoma CDK12 mutations misregulate expression of DNA repair genes via deficient formation and function of the Cdk12/CycK complex. Nucleic Acids Research, 2015, 43, 2575-2589.	14.5	107
52	Distribution of formins in cardiac muscle: FHOD1 is a component of intercalated discs and costameres. European Journal of Cell Biology, 2015, 94, 101-113.	3.6	16
53	The structure of FMNL2â€“Cdc42 yields insights into the mechanism of lamellipodia and filopodia formation. Nature Communications, 2015, 6, 7088.	12.8	63
54	The structure and substrate specificity of human Cdk12/Cyclin K. Nature Communications, 2014, 5, 3505.	12.8	141

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55	Formins as effector proteins of Rho GTPases. Small GTPases, 2014, 5, e983876.	1.6	219
56	Structural basis for the inhibition of HIV-1 Nef by a high-affinity binding single-domain antibody. Retrovirology, 2014, 11, 24.	2.0	18
57	Brd4 activates P-TEFb for RNA polymerase II CTD phosphorylation. Nucleic Acids Research, 2014, 42, 7577-7590.	14.5	184
58	Nef Proteins of Epidemic HIV-1 Group O Strains Antagonize Human Tetherin. Cell Host and Microbe, 2014, 16, 639-650.	11.0	77
59	Acetylation of RNA Polymerase II Regulates Growth-Factor-Induced Gene Transcription in Mammalian Cells. Molecular Cell, 2013, 52, 314-324.	9.7	103
60	The RNA Polymerase II Carboxy-Terminal Domain (CTD) Code. Chemical Reviews, 2013, 113, 8456-8490.	47.7	368
61	FHOD1 is a combined actin filament capping and bundling factor that selectively associates with actin arcs and stress fibers. Journal of Cell Science, 2013, 126, 1891-901.	2.0	74
62	Serine-7 but not serine-5 phosphorylation primes RNA polymerase II CTD for P-TEFb recognition. Nature Communications, 2012, 3, 842.	12.8	151
63	FMNL2 Drives Actin-Based Protrusion and Migration Downstream of Cdc42. Current Biology, 2012, 22, 1005-1012.	3.9	184
64	Conformation of the Dileucineâ€Based Sorting Motif in HIVâ€1 Nef Revealed by Intermolecular Domain Assembly. Traffic, 2011, 12, 867-877.	2.7	29
65	Nef Surfaces: Where to Interfere with Function. Current HIV Research, 2011, 9, 543-551.	0.5	9
66	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. Nature Chemical Biology, 2010, 6, 46-53.	8.0	88
67	Biophysical Analysis of the Interaction of Rab6a GTPase with Its Effector Domains. Journal of Biological Chemistry, 2009, 284, 2628-2635.	3.4	44
68	Biochemical Indication for Myristoylation-Dependent Conformational Changes in HIV-1 Nef. Biochemistry, 2006, 45, 2339-2349.	2.5	58
69	Specific and distinct determinants mediate membrane binding and lipid raft incorporation of HIV-1SF2 Nef. Virology, 2006, 355, 175-191.	2.4	66
70	Structureâ€“function relationships in HIVâ€1 Nef. EMBO Reports, 2001, 2, 580-585.	4.5	333
71	Structure of the anchor-domain of myristoylated and non-myristoylated HIV-1 Nef protein 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 289, 123-138.	4.2	107