

Maxim N Artyomov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

12,922
citations

49
h-index

113
g-index

132
ext. papers

18,181
ext. citations

19.4
avg, IF

6.32
L-index

#	Paper	IF	Citations
113	Checkpoint blockade cancer immunotherapy targets tumour-specific mutant antigens. <i>Nature</i> , 2014 , 515, 577-81	50.4	1331
112	Network integration of parallel metabolic and transcriptional data reveals metabolic modules that regulate macrophage polarization. <i>Immunity</i> , 2015 , 42, 419-30	32.3	933
111	Cell-intrinsic lysosomal lipolysis is essential for alternative activation of macrophages. <i>Nature Immunology</i> , 2014 , 15, 846-55	19.1	624
110	TLR-driven early glycolytic reprogramming via the kinases TBK1-IKKe supports the anabolic demands of dendritic cell activation. <i>Nature Immunology</i> , 2014 , 15, 323-32	19.1	619
109	Distinct patterns of somatic genome alterations in lung adenocarcinomas and squamous cell carcinomas. <i>Nature Genetics</i> , 2016 , 48, 607-16	36.3	613
108	Itaconate Links Inhibition of Succinate Dehydrogenase with Macrophage Metabolic Remodeling and Regulation of Inflammation. <i>Cell Metabolism</i> , 2016 , 24, 158-66	24.6	581
107	TREM2 Maintains Microglial Metabolic Fitness in Alzheimer's Disease. <i>Cell</i> , 2017 , 170, 649-663.e13	56.2	441
106	Fast gene set enrichment analysis		436
105	Tumor neoantigens: building a framework for personalized cancer immunotherapy. <i>Journal of Clinical Investigation</i> , 2015 , 125, 3413-21	15.9	370
104	Tissue-resident natural killer (NK) cells are cell lineages distinct from thymic and conventional splenic NK cells. <i>ELife</i> , 2014 , 3, e01659	8.9	361
103	Polyreactivity increases the apparent affinity of anti-HIV antibodies by heterooligation. <i>Nature</i> , 2010 , 467, 591-5	50.4	332
102	T cell sensing of antigen dose governs interactive behavior with dendritic cells and sets a threshold for T cell activation. <i>Nature Immunology</i> , 2008 , 9, 282-91	19.1	309
101	Commensal microbes and interferon- β determine persistence of enteric murine norovirus infection. <i>Science</i> , 2015 , 347, 266-9	33.3	287
100	MHC-II neoantigens shape tumour immunity and response to immunotherapy. <i>Nature</i> , 2019 , 574, 696-703	50.4	272
99	Electrophilic properties of itaconate and derivatives regulate the IRGAP1-ATF3 inflammatory axis. <i>Nature</i> , 2018 , 556, 501-504	50.4	268
98	Human and mouse single-nucleus transcriptomics reveal TREM2-dependent and TREM2-independent cellular responses in Alzheimer's disease. <i>Nature Medicine</i> , 2020 , 26, 131-142	50.5	259
97	The microbial metabolite desaminotyrosine protects from influenza through type I interferon. <i>Science</i> , 2017 , 357, 498-502	33.3	248

96	Interferon- β cures persistent murine norovirus infection in the absence of adaptive immunity. <i>Science</i> , 2015 , 347, 269-73	33.3	242
95	Tissue Resident CCR2- and CCR2+ Cardiac Macrophages Differentially Orchestrate Monocyte Recruitment and Fate Specification Following Myocardial Injury. <i>Circulation Research</i> , 2019 , 124, 263-278	15.7	207
94	Type 1 Interferons Induce Changes in Core Metabolism that Are Critical for Immune Function. <i>Immunity</i> , 2016 , 44, 1325-36	32.3	162
93	Itaconate: the poster child of metabolic reprogramming in macrophage function. <i>Nature Reviews Immunology</i> , 2019 , 19, 273-281	36.5	158
92	Mitochondrial Phosphoenolpyruvate Carboxykinase Regulates Metabolic Adaptation and Enables Glucose-Independent Tumor Growth. <i>Molecular Cell</i> , 2015 , 60, 195-207	17.6	154
91	Transcriptome Analysis Reveals Nonfoamy Rather Than Foamy Plaque Macrophages Are Proinflammatory in Atherosclerotic Murine Models. <i>Circulation Research</i> , 2018 , 123, 1127-1142	15.7	153
90	High-Dimensional Analysis Delineates Myeloid and Lymphoid Compartment Remodeling during Successful Immune-Checkpoint Cancer Therapy. <i>Cell</i> , 2018 , 175, 1014-1030.e19	56.2	150
89	Systematic discovery of TLR signaling components delineates viral-sensing circuits. <i>Cell</i> , 2011 , 147, 853-862	56.2	148
88	Gata6 regulates aspartoacylase expression in resident peritoneal macrophages and controls their survival. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1525-31	16.6	132
87	An Immunocompetent Mouse Model of Zika Virus Infection. <i>Cell Host and Microbe</i> , 2018 , 23, 672-685.e6	23.4	129
86	Dietary Intake Regulates the Circulating Inflammatory Monocyte Pool. <i>Cell</i> , 2019 , 178, 1102-1114.e17	56.2	129
85	CD4 and CD8 binding to MHC molecules primarily acts to enhance Lck delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16916-21	11.5	127
84	expression in myeloid cells prevents immunopathology during infection. <i>Journal of Experimental Medicine</i> , 2018 , 215, 1035-1045	16.6	110
83	Purely stochastic binary decisions in cell signaling models without underlying deterministic bistabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18958-63	11.5	98
82	TREM2 Modulation Remodels the Tumor Myeloid Landscape Enhancing Anti-PD-1 Immunotherapy. <i>Cell</i> , 2020 , 182, 886-900.e17	56.2	95
81	Methionine Metabolism Shapes T Helper Cell Responses through Regulation of Epigenetic Reprogramming. <i>Cell Metabolism</i> , 2020 , 31, 250-266.e9	24.6	91
80	Subsets of ILC3-ILC1-like cells generate a diversity spectrum of innate lymphoid cells in human mucosal tissues. <i>Nature Immunology</i> , 2019 , 20, 980-991	19.1	88
79	Integrating immunometabolism and macrophage diversity. <i>Seminars in Immunology</i> , 2016 , 28, 417-424	10.7	85

78	Defining the transcriptional and cellular landscape of type 1 diabetes in the NOD mouse. <i>PLoS ONE</i> , 2013 , 8, e59701	3.7	81
77	Deep sequencing of the murine IgH repertoire reveals complex regulation of nonrandom V gene rearrangement frequencies. <i>Journal of Immunology</i> , 2013 , 191, 2393-402	5.3	69
76	Heterogeneity of meningeal B cells reveals a lymphopoietic niche at the CNS borders. <i>Science</i> , 2021 , 373,	33.3	67
75	Homeostatic Control of Innate Lung Inflammation by Vici Syndrome Gene Epg5 and Additional Autophagy Genes Promotes Influenza Pathogenesis. <i>Cell Host and Microbe</i> , 2016 , 19, 102-13	23.4	66
74	Targeting dendritic cells to accelerate T-cell activation overcomes a bottleneck in tuberculosis vaccine efficacy. <i>Nature Communications</i> , 2016 , 7, 13894	17.4	66
73	Comparative evaluation of itaconate and its derivatives reveals divergent inflammasome and type I interferon regulation in macrophages. <i>Nature Metabolism</i> , 2020 , 2, 594-602	14.6	65
72	The islet-resident macrophage is in an inflammatory state and senses microbial products in blood. <i>Journal of Experimental Medicine</i> , 2017 , 214, 2369-2385	16.6	59
71	Endogenous Neoantigen-Specific CD8 T Cells Identified in Two Glioblastoma Models Using a Cancer Immunogenomics Approach. <i>Cancer Immunology Research</i> , 2016 , 4, 1007-1015	12.5	58
70	Comprehensive Profiling of an Aging Immune System Reveals Clonal GZMK CD8 T Cells as Conserved Hallmark of Inflammaging. <i>Immunity</i> , 2021 , 54, 99-115.e12	32.3	57
69	GAM: a web-service for integrated transcriptional and metabolic network analysis. <i>Nucleic Acids Research</i> , 2016 , 44, W194-200	20.1	54
68	Bhlhe40 is an essential repressor of IL-10 during infection. <i>Journal of Experimental Medicine</i> , 2018 , 215, 1823-1838	16.6	53
67	Limited proliferation capacity of aortic intima resident macrophages requires monocyte recruitment for atherosclerotic plaque progression. <i>Nature Immunology</i> , 2020 , 21, 1194-1204	19.1	51
66	Mycobacterium tuberculosis carrying a rifampicin drug resistance mutation reprograms macrophage metabolism through cell wall lipid changes. <i>Nature Microbiology</i> , 2018 , 3, 1099-1108	26.6	51
65	infection drives conversion of NK cells into ILC1-like cells. <i>ELife</i> , 2019 , 8,	8.9	50
64	Interferon lambda protects the female reproductive tract against Zika virus infection. <i>Nature Communications</i> , 2019 , 10, 280	17.4	49
63	Autophagy Genes Enhance Murine Gammaherpesvirus 68 Reactivation from Latency by Preventing Virus-Induced Systemic Inflammation. <i>Cell Host and Microbe</i> , 2016 , 19, 91-101	23.4	47
62	IL-1-induced Bhlhe40 identifies pathogenic T helper cells in a model of autoimmune neuroinflammation. <i>Journal of Experimental Medicine</i> , 2016 , 213, 251-71	16.6	46
61	Ketogenesis activates metabolically protective γ T cells in visceral adipose tissue. <i>Nature Metabolism</i> , 2020 , 2, 50-61	14.6	44

60	Opposing Roles of Dendritic Cell Subsets in Experimental GN. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 138-154	12.7	44
59	End Sequence Analysis Toolkit (ESAT) expands the extractable information from single-cell RNA-seq data. <i>Genome Research</i> , 2016 , 26, 1397-1410	9.7	43
58	The miR-17~92 microRNA Cluster Is a Global Regulator of Tumor Metabolism. <i>Cell Reports</i> , 2016 , 16, 1915-28	10.6	43
57	Immunometabolism in the Single-Cell Era. <i>Cell Metabolism</i> , 2020 , 32, 710-725	24.6	42
56	The Intestinal Microbiome Restricts Alphavirus Infection and Dissemination through a Bile Acid-Type I IFN Signaling Axis. <i>Cell</i> , 2020 , 182, 901-918.e18	56.2	42
55	Modular expression analysis reveals functional conservation between human Langerhans cells and mouse cross-priming dendritic cells. <i>Journal of Experimental Medicine</i> , 2015 , 212, 743-57	16.6	40
54	Unifying model for molecular determinants of the preselection V β repertoire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E3206-15	11.5	40
53	Dynamic Shifts in the Composition of Resident and Recruited Macrophages Influence Tissue Remodeling in NASH. <i>Cell Reports</i> , 2021 , 34, 108626	10.6	39
52	Complete deconvolution of cellular mixtures based on linearity of transcriptional signatures. <i>Nature Communications</i> , 2019 , 10, 2209	17.4	36
51	A model for genetic and epigenetic regulatory networks identifies rare pathways for transcription factor induced pluripotency. <i>PLoS Computational Biology</i> , 2010 , 6, e1000785	5	36
50	In vivo imaging of T cell priming. <i>Science Signaling</i> , 2008 , 1, pt2	8.8	34
49	Selective removal of astrocytic APOE4 strongly protects against tau-mediated neurodegeneration and decreases synaptic phagocytosis by microglia. <i>Neuron</i> , 2021 , 109, 1657-1674.e7	13.9	34
48	Detection of neoantigen-specific T cells following a personalized vaccine in a patient with glioblastoma. <i>Oncotmunology</i> , 2019 , 8, e1561106	7.2	32
47	The immune landscape in tuberculosis reveals populations linked to disease and latency. <i>Cell Host and Microbe</i> , 2021 , 29, 165-178.e8	23.4	32
46	Interleukin-17 limits hypoxia-inducible factor 1 α and development of hypoxic granulomas during tuberculosis. <i>JCI Insight</i> , 2017 , 2,	9.9	31
45	Itaconate confers tolerance to late NLRP3 inflammasome activation. <i>Cell Reports</i> , 2021 , 34, 108756	10.6	30
44	Bhlhe40 mediates tissue-specific control of macrophage proliferation in homeostasis and type 2 immunity. <i>Nature Immunology</i> , 2019 , 20, 687-700	19.1	28
43	Single-cell RNA-seq analysis of human CSF microglia and myeloid cells in neuroinflammation. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2020 , 7,	9.1	26

42	Interaction of streptavidin-based peptide-MHC oligomers (tetramers) with cell-surface TCRs. <i>Journal of Immunology</i> , 2011 , 187, 6281-90	5.3	26
41	Comparing the biological impact of glatiramer acetate with the biological impact of a generic. <i>PLoS ONE</i> , 2014 , 9, e83757	3.7	26
40	Myocardial B cells are a subset of circulating lymphocytes with delayed transit through the heart. <i>JCI Insight</i> , 2020 , 5,	9.9	24
39	Autophagy genes in myeloid cells counteract IFN γ -induced TNF-mediated cell death and fatal TNF-induced shock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16497-16506	11.5	23
38	Coreceptor affinity for MHC defines peptide specificity requirements for TCR interaction with coagonist peptide-MHC. <i>Journal of Experimental Medicine</i> , 2013 , 210, 1807-21	16.6	21
37	ImmGen at 15. <i>Nature Immunology</i> , 2020 , 21, 700-703	19.1	20
36	Structural basis for human respiratory syncytial virus NS1-mediated modulation of host responses. <i>Nature Microbiology</i> , 2017 , 2, 17101	26.6	20
35	Radiation-induced neoantigens broaden the immunotherapeutic window of cancers with low mutational loads. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	20
34	Cancer immunogenomic approach to neoantigen discovery in a checkpoint blockade responsive murine model of oral cavity squamous cell carcinoma. <i>Oncotarget</i> , 2018 , 9, 4109-4119	3.3	19
33	Targeted chromatin profiling reveals novel enhancers in Ig H and Ig L chain Loci. <i>Journal of Immunology</i> , 2014 , 192, 1064-70	5.3	18
32	Select autophagy genes maintain quiescence of tissue-resident macrophages and increase susceptibility to <i>Listeria monocytogenes</i> . <i>Nature Microbiology</i> , 2020 , 5, 272-281	26.6	17
31	Barrier-to-Autointegration Factor 1 Protects against a Basal cGAS-STING Response. <i>MBio</i> , 2020 , 11,	7.8	16
30	Lattice models of ionic systems with charge asymmetry. <i>Journal of Chemical Physics</i> , 2003 , 118, 6394-6402	3.9	16
29	LKB1 expressed in dendritic cells governs the development and expansion of thymus-derived regulatory T cells. <i>Cell Research</i> , 2019 , 29, 406-419	24.7	15
28	Compressible models of equilibrium polymerization. <i>Journal of Chemical Physics</i> , 2005 , 123, 194906	3.9	14
27	Caloric restriction in humans reveals immunometabolic regulators of health span.. <i>Science</i> , 2022 , 375, 671-677	33.3	13
26	Single-cell analyses of Crohn's disease tissues reveal intestinal intraepithelial T cells heterogeneity and altered subset distributions. <i>Nature Communications</i> , 2021 , 12, 1921	17.4	13
25	Ketogenic diet restrains aging-induced exacerbation of coronavirus infection in mice. <i>ELife</i> , 2021 , 10,	8.9	13

24	Overexpressing low-density lipoprotein receptor reduces tau-associated neurodegeneration in relation to apoE-linked mechanisms. <i>Neuron</i> , 2021 , 109, 2413-2426.e7	13.9	13
23	Single-cell transcriptomics reveals cell-type-specific diversification in human heart failure 2022 , 1, 263-280		11
22	IL-33 causes thermogenic failure in aging by expanding dysfunctional adipose ILC2. <i>Cell Metabolism</i> , 2021 , 33, 2277-2287.e5	24.6	9
21	Defining the 5' and 3' landscape of the Drosophila transcriptome with Exo-seq and RNaseH-seq. <i>Nucleic Acids Research</i> , 2017 , 45, e95	20.1	8
20	STING Gain-of-Function Disrupts Lymph Node Organogenesis and Innate Lymphoid Cell Development in Mice. <i>Cell Reports</i> , 2020 , 31, 107771	10.6	8
19	Immune ageing at single-cell resolution. <i>Nature Reviews Immunology</i> , 2021 ,	36.5	8
18	Enhanced epigenetic profiling of classical human monocytes reveals a specific signature of healthy aging in the DNA methylome. <i>Nature Aging</i> , 2021 , 1, 124-141		8
17	Author response: Tissue-resident natural killer (NK) cells are cell lineages distinct from thymic and conventional splenic NK cells 2014 ,		7
16	Regulation of olfactomedin 4 by Porphyromonas gingivalis in a community context. <i>ISME Journal</i> , 2021 , 15, 2627-2642	11.9	5
15	A sustained type I IFN-neutrophil-IL-18 axis drives pathology during mucosal viral infection. <i>ELife</i> , 2021 , 10,	8.9	5
14	Tonic TCR Signaling Inversely Regulates the Basal Metabolism of CD4 T Cells. <i>ImmunoHorizons</i> , 2020 , 4, 485-497	2.7	4
13	Cellular and plasma proteomic determinants of COVID-19 and non-COVID-19 pulmonary diseases relative to healthy aging. <i>Nature Aging</i> , 2021 , 1, 535-549		4
12	Lung Epithelial Signaling Mediates Early Vaccine-Induced CD4 T Cell Activation and Control. <i>MBio</i> , 2021 , 12, e0146821	7.8	4
11	Homeostatic interferon-lambda response to bacterial microbiota stimulates preemptive antiviral defense within discrete pockets of intestinal epithelium.. <i>ELife</i> , 2022 , 11,	8.9	3
10	Non-canonical glutamine transamination sustains efferocytosis by coupling redox buffering to oxidative phosphorylation. <i>Nature Metabolism</i> , 2021 , 3, 1313-1326	14.6	3
9	Myeloid cell interferon responses correlate with clearance of SARS-CoV-2.. <i>Nature Communications</i> , 2022 , 13, 679	17.4	2
8	Myeloid cell interferon responses correlate with clearance of SARS-CoV-2 2021 ,		2
7	Altered ratio of dendritic cell subsets in skin-draining lymph nodes promotes Th2-driven contact hypersensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2

6	CD11cCD88CD317 myeloid cells are critical mediators of persistent CNS autoimmunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
5	Microbiome-mediated incapacitation of interferon lambda production in the oral mucosa.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
4	Dysregulation of adipose ILC2 underlies thermogenic failure in aging		1
3	Requisite Chromatin Remodeling for Myeloid and Erythroid Lineage Differentiation from Erythromyeloid Progenitors. <i>Cell Reports</i> , 2020 , 33, 108395	10.6	1
2	Single Cell Transcriptomics Reveals Cell Type Specific Diversification in Human Heart Failure		1
1	Loss of with aging contributes to inflammation and mitochondrial dysfunction in thioglycollate-elicited peritoneal macrophages. <i>ELife</i> , 2021 , 10,	8.9	1