Maxim N Artyomov

List of Publications by Year
in descending order

114	22,180	23879 60	23841 115
papers	citations	h-index	g-index

132	132	132	39371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Immune ageing at single-cell resolution. Nature Reviews Immunology, 2022, 22, 484-498.	10.6	128
2	Homeostatic interferon-lambda response to bacterial microbiota stimulates preemptive antiviral defense within discrete pockets of intestinal epithelium. ELife, 2022, 11, .	2.8	25
3	Caloric restriction in humans reveals immunometabolic regulators of health span. Science, 2022, 375, 671-677.	6.0	118
4	Myeloid cell interferon responses correlate with clearance of SARS-CoV-2. Nature Communications, 2022, 13, 679.	5.8	30
5	Single-cell transcriptomics reveals cell-type-specific diversification in human heart failure. , 2022, 1, 263-280.		124
6	Shiny GATOM: omics-based identification of regulated metabolic modules in atom transition networks. Nucleic Acids Research, 2022, 50, W690-W696.	6.5	3
7	Mycobacterium tuberculosis infection drives a type I IFN signature in lung lymphocytes. Cell Reports, 2022, 39, 110983.	2.9	20
8	Comprehensive Profiling of an Aging Immune System Reveals Clonal GZMK+ CD8+ T Cells as Conserved Hallmark of Inflammaging. Immunity, 2021, 54, 99-115.e12.	6.6	258
9	Enhanced epigenetic profiling of classical human monocytes reveals a specific signature of healthy aging in the DNA methylome. Nature Aging, 2021, 1, 124-141.	5.3	30
10	The immune landscape in tuberculosis reveals populations linked to disease and latency. Cell Host and Microbe, 2021, 29, 165-178.e8.	5.1	98
11	Altered ratio of dendritic cell subsets in skin-draining lymph nodes promotes Th2-driven contact hypersensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
12	Dynamic Shifts in the Composition of Resident and Recruited Macrophages Influence Tissue Remodeling in NASH. Cell Reports, 2021, 34, 108626.	2.9	164
13	CD11c⁺CD88⁺CD317⁺myeloid cells are critical mediators of persistent CNS autoimmunity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	11
14	Itaconate confers tolerance to late NLRP3 inflammasome activation. Cell Reports, 2021, 34, 108756.	2.9	105
15	Single-cell analyses of Crohnâ€™s disease tissues reveal intestinal intraepithelial T cells heterogeneity and altered subset distributions. Nature Communications, 2021, 12, 1921.	5.8	96
16	Regulation of olfactomedin 4 by Porphyromonas gingivalis in a community context. ISME Journal, 2021, 15, 2627-2642.	4.4	12
17	Cellular and plasma proteomic determinants of COVID-19 and non-COVID-19 pulmonary diseases relative to healthy aging. Nature Aging, 2021, 1, 535-549.	5.3	22
18	A sustained type I IFN-neutrophil-IL-18 axis drives pathology during mucosal viral infection. ELife, 2021, 10, .	2.8	15

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19	Selective removal of astrocytic APOE4 strongly protects against tau-mediated neurodegeneration and decreases synaptic phagocytosis by microglia. Neuron, 2021, 109, 1657-1674.e7.	3.8	151
20	Radiation-induced neoantigens broaden the immunotherapeutic window of cancers with low mutational loads. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	62
21	Semi-supervised peak calling with SPAN and JBR genome browser. Bioinformatics, 2021, , .	1.8	4
22	Ketogenic diet restrains aging-induced exacerbation of coronavirus infection in mice. ELife, 2021, 10, .	2.8	37
23	Heterogeneity of meningeal B cells reveals a lymphopoietic niche at the CNS borders. Science, 2021, 373, .	6.0	218
24	FARM. , 2021, , .		0
25	Loss of Mir146b with aging contributes to inflammation and mitochondrial dysfunction in thioglycollate-elicited peritoneal macrophages. ELife, 2021, 10, .	2.8	6
26	Lung Epithelial Signaling Mediates Early Vaccine-Induced CD4⁺T Cell Activation andMycobacterium tuberculosisControl. MBio, 2021, 12, e0146821.	1.8	11
27	Overexpressing low-density lipoprotein receptor reduces tau-associated neurodegeneration in relation to apoE-linked mechanisms. Neuron, 2021, 109, 2413-2426.e7.	3.8	57
28	SPAN and JBR. , 2021, , .		0
29	IL-33 causes thermogenic failure in aging by expanding dysfunctional adipose ILC2. Cell Metabolism, 2021, 33, 2277-2287.e5.	7.2	42
30	Non-canonical glutamine transamination sustains efferocytosis by coupling redox buffering to oxidative phosphorylation. Nature Metabolism, 2021, 3, 1313-1326.	5.1	31
31	Microbiome-mediated incapacitation of interferon lambda production in the oral mucosa. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
32	An Agonistic Anti-CD137 Antibody Disrupts Lymphoid Follicle Structure and T-Cell-Dependent Antibody Responses. Cell Reports Medicine, 2020, 1, 100035.	3.3	3
33	Immunometabolism in the Single-Cell Era. Cell Metabolism, 2020, 32, 710-725.	7.2	116
34	The Intestinal Microbiome Restricts Alphavirus Infection and Dissemination through a Bile Acid-Type I IFN Signaling Axis. Cell, 2020, 182, 901-918.e18.	13.5	98
35	Requisite Chromatin Remodeling for Myeloid and Erythroid Lineage Differentiation from Erythromyeloid Progenitors. Cell Reports, 2020, 33, 108395.	2.9	6
36	TREM2 Modulation Remodels the Tumor Myeloid Landscape Enhancing Anti-PD-1 Immunotherapy. Cell, 2020, 182, 886-900.e17.	13.5	309

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37	Limited proliferation capacity of aortic intima resident macrophages requires monocyte recruitment for atherosclerotic plaque progression. Nature Immunology, 2020, 21, 1194-1204.	7.0	115
38	Barrier-to-Autointegration Factor 1 Protects against a Basal cGAS-STING Response. MBio, 2020, 11, .	1.8	33
39	Single-cell RNA-seq analysis of human CSF microglia and myeloid cells in neuroinflammation. Neurology: Neuroimmunology and NeuroInflammation, 2020, 7, .	3.1	65
40	STING Gain-of-Function Disrupts Lymph Node Organogenesis and Innate Lymphoid Cell Development in Mice. Cell Reports, 2020, 31, 107771.	2.9	18
41	ImmGen at 15. Nature Immunology, 2020, 21, 700-703.	7.0	55
42	Human and mouse single-nucleus transcriptomics reveal TREM2-dependent and TREM2-independent cellular responses in Alzheimerâ€™s disease. Nature Medicine, 2020, 26, 131-142.	15.2	641
43	Select autophagy genes maintain quiescence of tissue-resident macrophages and increase susceptibility to Listeria monocytogenes. Nature Microbiology, 2020, 5, 272-281.	5.9	36
44	Ketogenesis activates metabolically protective Î³Î´ T cells in visceral adipose tissue. Nature Metabolism, 2020, 2, 50-61.	5.1	107
45	Methionine Metabolism Shapes T Helper Cell Responses through Regulation of Epigenetic Reprogramming. Cell Metabolism, 2020, 31, 250-266.e9.	7.2	182
46	Comparative evaluation of itaconate and its derivatives reveals divergent inflammasome and type I interferon regulation in macrophages. Nature Metabolism, 2020, 2, 594-602.	5.1	163
47	Myocardial B cells are a subset of circulating lymphocytes with delayed transit through the heart. JCI Insight, 2020, 5, .	2.3	57
48	Tonic TCR Signaling Inversely Regulates the Basal Metabolism of CD4+ T Cells. ImmunoHorizons, 2020, 4, 485-497.	0.8	14
49	Dietary Intake Regulates the Circulating Inflammatory Monocyte Pool. Cell, 2019, 178, 1102-1114.e17.	13.5	254
50	Autophagy genes in myeloid cells counteract IFNÎ³-induced TNF-mediated cell death and fatal TNF-induced shock. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16497-16506.	3.3	35
51	Detection of neoantigen-specific T cells following a personalized vaccine in a patient with glioblastoma. OncoImmunology, 2019, 8, e1561106.	2.1	50
52	Itaconate: the poster child of metabolic reprogramming in macrophage function. Nature Reviews Immunology, 2019, 19, 273-281.	10.6	359
53	Interferon lambda protects the female reproductive tract against Zika virus infection. Nature Communications, 2019, 10, 280.	5.8	83
54	Subsets of ILC3â^'ILC1-like cells generate a diversity spectrum of innate lymphoid cells in human mucosal tissues. Nature Immunology, 2019, 20, 980-991.	7.0	141

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55	Complete deconvolution of cellular mixtures based on linearity of transcriptional signatures. Nature Communications, 2019, 10, 2209.	5.8	74
56	Bhlhe40 mediates tissue-specific control of macrophage proliferation in homeostasis and type 2 immunity. Nature Immunology, 2019, 20, 687-700.	7.0	62
57	LKB1 expressed in dendritic cells governs the development and expansion of thymus-derived regulatory T cells. Cell Research, 2019, 29, 406-419.	5.7	34
58	MHC-II neoantigens shape tumour immunity and response to immunotherapy. Nature, 2019, 574, 696-701.	13.7	563
59	Tissue Resident CCR2â˜ and CCR2+ Cardiac Macrophages Differentially Orchestrate Monocyte Recruitment and Fate Specification Following Myocardial Injury. Circulation Research, 2019, 124, 263-278.	2.0	424
60	Toxoplasma gondii infection drives conversion of NK cells into ILC1-like cells. ELife, 2019, 8, .	2.8	91
61	Electrophilic properties of itaconate and derivatives regulate theÂÎºBÎ¶â€“ATF3 inflammatory axis. Nature, 2018, 556, 501-504.	13.7	438
62	Irg1 expression in myeloid cells prevents immunopathology during M. tuberculosis infection. Journal of Experimental Medicine, 2018, 215, 1035-1045.	4.2	190
63	Opposing Roles of Dendritic Cell Subsets in Experimental GN. Journal of the American Society of Nephrology: JASN, 2018, 29, 138-154.	3.0	65
64	Transcriptome Analysis Reveals Nonfoamy Rather Than Foamy Plaque Macrophages Are Proinflammatory in Atherosclerotic Murine Models. Circulation Research, 2018, 123, 1127-1142.	2.0	275
65	High-Dimensional Analysis Delineates Myeloid and Lymphoid Compartment Remodeling during Successful Immune-Checkpoint Cancer Therapy. Cell, 2018, 175, 1014-1030.e19.	13.5	292
66	Mycobacterium tuberculosis carrying a rifampicin drug resistance mutation reprograms macrophage metabolism through cell wall lipid changes. Nature Microbiology, 2018, 3, 1099-1108.	5.9	90
67	Bhlhe40 is an essential repressor of IL-10 during Mycobacterium tuberculosis infection. Journal of Experimental Medicine, 2018, 215, 1823-1838.	4.2	95
68	An Immunocompetent Mouse Model of Zika Virus Infection. Cell Host and Microbe, 2018, 23, 672-685.e6.	5.1	192
69	Cancer immunogenomic approach to neoantigen discovery in a checkpoint blockade responsive murine model of oral cavity squamous cell carcinoma. Oncotarget, 2018, 9, 4109-4119.	0.8	34
70	The islet-resident macrophage is in an inflammatory state and senses microbial products in blood. Journal of Experimental Medicine, 2017, 214, 2369-2385.	4.2	89
71	Defining the 5Î„ and 3Î„ landscape of the Drosophila transcriptome with Exo-seq and RNaseH-seq. Nucleic Acids Research, 2017, 45, e95-e95.	6.5	11
72	TREM2 Maintains Microglial Metabolic Fitness in Alzheimerâ€™s Disease. Cell, 2017, 170, 649-663.e13.	13.5	741

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73	The microbial metabolite desaminotyrosine protects from influenza through type I interferon. Science, 2017, 357, 498-502.	6.0	391
74	Structural basis for human respiratory syncytial virus NS1-mediated modulation of host responses. Nature Microbiology, 2017, 2, 17101.	5.9	29
75	Interleukin-17 limits hypoxia-inducible factor 1Î± and development of hypoxic granulomas during tuberculosis. JCI Insight, 2017, 2, .	2.3	45
76	Itaconate Links Inhibition of Succinate Dehydrogenase with Macrophage Metabolic Remodeling and Regulation of Inflammation. Cell Metabolism, 2016, 24, 158-166.	7.2	944
77	Targeting dendritic cells to accelerate T-cell activation overcomes a bottleneck in tuberculosis vaccine efficacy. Nature Communications, 2016, 7, 13894.	5.8	100
78	Distinct patterns of somatic genome alterations in lung adenocarcinomas and squamous cell carcinomas. Nature Genetics, 2016, 48, 607-616.	9.4	933
79	GAM: a web-service for integrated transcriptional and metabolic network analysis. Nucleic Acids Research, 2016, 44, W194-W200.	6.5	81
80	The miR-17 â^¼ 92 microRNA Cluster Is a Global Regulator of Tumor Metabolism. Cell Reports, 2016, 16, 1915-1928.	2.9	58
81	End Sequence Analysis Toolkit (ESAT) expands the extractable information from single-cell RNA-seq data. Genome Research, 2016, 26, 1397-1410.	2.4	63
82	Integrating immunometabolism and macrophage diversity. Seminars in Immunology, 2016, 28, 417-424.	2.7	137
83	Endogenous Neoantigen-Specific CD8 T Cells Identified in Two Glioblastoma Models Using a Cancer Immunogenomics Approach. Cancer Immunology Research, 2016, 4, 1007-1015.	1.6	84
84	Type 1 Interferons Induce Changes in Core Metabolism that Are Critical for Immune Function. Immunity, 2016, 44, 1325-1336.	6.6	248
85	Homeostatic Control of Innate Lung Inflammation by Vici Syndrome Gene Epg5 and Additional Autophagy Genes Promotes Influenza Pathogenesis. Cell Host and Microbe, 2016, 19, 102-113.	5.1	83
86	Autophagy Genes Enhance Murine Gammaherpesvirus 68 Reactivation from Latency by Preventing Virus-Induced Systemic Inflammation. Cell Host and Microbe, 2016, 19, 91-101.	5.1	56
87	IL-1â€“induced Bhlhe40 identifies pathogenic T helper cells in a model of autoimmune neuroinflammation. Journal of Experimental Medicine, 2016, 213, 251-271.	4.2	81
88	Tumor neoantigens: building a framework for personalized cancer immunotherapy. Journal of Clinical Investigation, 2015, 125, 3413-3421.	3.9	502
89	Modular expression analysis reveals functional conservation between human Langerhans cells and mouse cross-priming dendritic cells. Journal of Experimental Medicine, 2015, 212, 743-757.	4.2	46
90	Network Integration of Parallel Metabolic and Transcriptional Data Reveals Metabolic Modules that Regulate Macrophage Polarization. Immunity, 2015, 42, 419-430.	6.6	1,423

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91	Mitochondrial Phosphoenolpyruvate Carboxykinase Regulates Metabolic Adaptation and Enables Glucose-Independent Tumor Growth. Molecular Cell, 2015, 60, 195-207.	4.5	200
92	Commensal microbes and interferon-Î» determine persistence of enteric murine norovirus infection. Science, 2015, 347, 266-269.	6.0	386
93	Interferon-Î» cures persistent murine norovirus infection in the absence of adaptive immunity. Science, 2015, 347, 269-273.	6.0	308
94	Targeted Chromatin Profiling Reveals Novel Enhancers in Ig H and Ig L Chain Loci. Journal of Immunology, 2014, 192, 1064-1070.	0.4	23
95	Checkpoint blockade cancer immunotherapy targets tumour-specific mutant antigens. Nature, 2014, 515, 577-581.	13.7	1,705
96	TLR-driven early glycolytic reprogramming via the kinases TBK1-IKKÉ› supports the anabolic demands of dendritic cell activation. Nature Immunology, 2014, 15, 323-332.	7.0	861
97	Cell-intrinsic lysosomal lipolysis is essential for alternative activation of macrophages. Nature Immunology, 2014, 15, 846-855.	7.0	856
98	Gata6 regulates aspartoacylase expression in resident peritoneal macrophages and controls their survival. Journal of Experimental Medicine, 2014, 211, 1525-1531.	4.2	159
99	Comparing the Biological Impact of Glatiramer Acetate with the Biological Impact of a Generic. PLoS ONE, 2014, 9, e83757.	1.1	35
100	Tissue-resident natural killer (NK) cells are cell lineages distinct from thymic and conventional splenic NK cells. ELife, 2014, 3, e01659.	2.8	478
101	Coreceptor affinity for MHC defines peptide specificity requirements for TCR interaction with coagonist peptideâ€“MHC. Journal of Experimental Medicine, 2013, 210, 1807-1821.	4.2	32
102	Deep Sequencing of the Murine Igh Repertoire Reveals Complex Regulation of Nonrandom V Gene Rearrangement Frequencies. Journal of Immunology, 2013, 191, 2393-2402.	0.4	120
103	Unifying model for molecular determinants of the preselection VÎ² repertoire. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3206-15.	3.3	50
104	Defining the Transcriptional and Cellular Landscape of Type 1 Diabetes in the NOD Mouse. PLoS ONE, 2013, 8, e59701.	1.1	101
105	Systematic Discovery of TLR Signaling Components Delineates Viral-Sensing Circuits. Cell, 2011, 147, 853-867.	13.5	177
106	Interaction of Streptavidin-Based Peptideâ€“MHC Oligomers (Tetramers) with Cell-Surface TCRs. Journal of Immunology, 2011, 187, 6281-6290.	0.4	28
107	Polyreactivity increases the apparent affinity of anti-HIV antibodies by heteroligation. Nature, 2010, 467, 591-595.	13.7	393
108	CD4 and CD8 binding to MHC molecules primarily acts to enhance Lck delivery. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16916-16921.	3.3	167

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109	A Model for Genetic and Epigenetic Regulatory Networks Identifies Rare Pathways for Transcription Factor Induced Pluripotency. PLoS Computational Biology, 2010, 6, e1000785.	1.5	49
110	T cell sensing of antigen dose governs interactive behavior with dendritic cells and sets a threshold for T cell activation. Nature Immunology, 2008, 9, 282-291.	7.0	375
111	In Vivo Imaging of T Cell PrimingA presentation from the 11th Joint Meeting of the Signal Transduction Society (STS), Signal Transduction: Receptors, Mediators and Genes, Weimar, Germany, 1 to 3 November 2007.. Science Signaling, 2008, 1, pt2.	1.6	49
112	Purely stochastic binary decisions in cell signaling models without underlying deterministic bistabilities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18958-18963.	3.3	109
113	Compressible models of equilibrium polymerization. Journal of Chemical Physics, 2005, 123, 194906.	1.2	14
114	Lattice models of ionic systems with charge asymmetry. Journal of Chemical Physics, 2003, 118, 6394-6402.	1.2	16