

Matthew F Krummel

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.

110
papers

12,643
citations

42
h-index

112
g-index

134
ext. papers

17,100
ext. citations

19.7
avg, IF

6.52
L-index

#	Paper	IF	Citations
110	Enhancement of antitumor immunity by CTLA-4 blockade. <i>Science</i> , 1996 , 271, 1734-6	33.3	2546
109	Understanding the tumor immune microenvironment (TIME) for effective therapy. <i>Nature Medicine</i> , 2018 , 24, 541-550	50.5	1772
108	Type 2 innate lymphoid cells control eosinophil homeostasis. <i>Nature</i> , 2013 , 502, 245-8	50.4	652
107	Dissecting the tumor myeloid compartment reveals rare activating antigen-presenting cells critical for T cell immunity. <i>Cancer Cell</i> , 2014 , 26, 638-52	24.3	592
106	Dendritic cells in cancer immunology and immunotherapy. <i>Nature Reviews Immunology</i> , 2020 , 20, 7-24	36.5	589
105	The lung is a site of platelet biogenesis and a reservoir for haematopoietic progenitors. <i>Nature</i> , 2017 , 544, 105-109	50.4	541
104	Interactions between PD-1 and PD-L1 promote tolerance by blocking the TCR-induced stop signal. <i>Nature Immunology</i> , 2009 , 10, 1185-92	19.1	530
103	Critical Role for CD103(+)/CD141(+) Dendritic Cells Bearing CCR7 for Tumor Antigen Trafficking and Priming of T Cell Immunity in Melanoma. <i>Cancer Cell</i> , 2016 , 30, 324-336	24.3	426
102	A natural killer-dendritic cell axis defines checkpoint therapy-responsive tumor microenvironments. <i>Nature Medicine</i> , 2018 , 24, 1178-1191	50.5	404
101	Stabilized imaging of immune surveillance in the mouse lung. <i>Nature Methods</i> , 2011 , 8, 91-6	21.6	265
100	Visualization of immediate immune responses to pioneer metastatic cells in the lung. <i>Nature</i> , 2016 , 531, 513-7	50.4	247
99	Marginating dendritic cells of the tumor microenvironment cross-present tumor antigens and stably engage tumor-specific T cells. <i>Cancer Cell</i> , 2012 , 21, 402-17	24.3	233
98	T cell migration, search strategies and mechanisms. <i>Nature Reviews Immunology</i> , 2016 , 16, 193-201	36.5	208
97	Unleashing Type-2 Dendritic Cells to Drive Protective Antitumor CD4 T Cell Immunity. <i>Cell</i> , 2019 , 177, 556-571.e16	56.2	195
96	Chitin activates parallel immune modules that direct distinct inflammatory responses via innate lymphoid type 2 and Γ cells. <i>Immunity</i> , 2014 , 40, 414-24	32.3	183
95	Dynamics of the immunological synapse: finding, establishing and solidifying a connection. <i>Current Opinion in Immunology</i> , 2002 , 14, 66-74	7.8	166
94	Maintenance and modulation of T cell polarity. <i>Nature Immunology</i> , 2006 , 7, 1143-9	19.1	146

93	TIM-3 Regulates CD103 Dendritic Cell Function and Response to Chemotherapy in Breast Cancer. <i>Cancer Cell</i> , 2018 , 33, 60-74.e6	24.3	141
92	Spatiotemporally separated antigen uptake by alveolar dendritic cells and airway presentation to T cells in the lung. <i>Journal of Experimental Medicine</i> , 2012 , 209, 1183-99	16.6	138
91	Visualizing dynamic microvillar search and stabilization during ligand detection by T cells. <i>Science</i> , 2017 , 356,	33.3	133
90	Adventitial Stromal Cells Define Group 2 Innate Lymphoid Cell Tissue Niches. <i>Immunity</i> , 2019 , 50, 707-723.e6	32.6	133
89	Imaging synapse formation during thymocyte selection: inability of CD3zeta to form a stable central accumulation during negative selection. <i>Immunity</i> , 2002 , 16, 595-606	32.3	122
88	Global absence and targeting of protective immune states in severe COVID-19. <i>Nature</i> , 2021 , 591, 124-130.4	30.4	100
87	A synaptic basis for paracrine interleukin-2 signaling during homotypic T cell interaction. <i>Immunity</i> , 2008 , 29, 238-48	32.3	98
86	The NK cell-cancer cycle: advances and new challenges in NK cell-based immunotherapies. <i>Nature Immunology</i> , 2020 , 21, 835-847	19.1	98
85	The Lung is a Host Defense Niche for Immediate Neutrophil-Mediated Vascular Protection. <i>Science Immunology</i> , 2017 , 2,	28	96
84	Secondary T cell-T cell synaptic interactions drive the differentiation of protective CD8+ T cells. <i>Nature Immunology</i> , 2013 , 14, 356-63	19.1	95
83	Detection of rare antigen-presenting cells through T cell-intrinsic meandering motility, mediated by Myo1g. <i>Cell</i> , 2014 , 158, 492-505	56.2	82
82	Regulation of T cell priming by lymphoid stroma. <i>PLoS ONE</i> , 2011 , 6, e26138	3.7	76
81	Integration of the movement of signaling microclusters with cellular motility in immunological synapses. <i>Nature Immunology</i> , 2012 , 13, 787-95	19.1	72
80	CXCR4 identifies transitional bone marrow premonocytes that replenish the mature monocyte pool for peripheral responses. <i>Journal of Experimental Medicine</i> , 2016 , 213, 2293-2314	16.6	66
79	Adaptive Immune Regulation of Mammary Postnatal Organogenesis. <i>Developmental Cell</i> , 2015 , 34, 493-504.2	50.2	60
78	STAT3 Establishes an Immunosuppressive Microenvironment during the Early Stages of Breast Carcinogenesis to Promote Tumor Growth and Metastasis. <i>Cancer Research</i> , 2016 , 76, 1416-28	10.1	60
77	Control of cortical rigidity by the cytoskeleton: emerging roles for septins. <i>Cytoskeleton</i> , 2010 , 67, 477-86.4	86.4	59
76	Pulmonary environmental cues drive group 2 innate lymphoid cell dynamics in mice and humans. <i>Science Immunology</i> , 2019 , 4,	28	54

75	Tuning the Tumor Myeloid Microenvironment to Fight Cancer. <i>Frontiers in Immunology</i> , 2019 , 10, 1611	8.4	53
74	Visualizing Synaptic Transfer of Tumor Antigens among Dendritic Cells. <i>Cancer Cell</i> , 2020 , 37, 786-799.e5	4.3	48
73	CCR2 Influences T Regulatory Cell Migration to Tumors and Serves as a Biomarker of Cyclophosphamide Sensitivity. <i>Cancer Research</i> , 2016 , 76, 6483-6494	10.1	46
72	Partially exhausted tumor-infiltrating lymphocytes predict response to combination immunotherapy. <i>JCI Insight</i> , 2017 , 2,	9.9	44
71	SCENITH: A Flow Cytometry-Based Method to Functionally Profile Energy Metabolism with Single-Cell Resolution. <i>Cell Metabolism</i> , 2020 , 32, 1063-1075.e7	24.6	43
70	Leukotriene B4 amplifies eosinophil accumulation in response to nematodes. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1281-8	16.6	42
69	Activated T cell trans-endothelial migration relies on myosin-IIA contractility for squeezing the cell nucleus through endothelial cell barriers. <i>PLoS ONE</i> , 2013 , 8, e75151	3.7	42
68	iNKT Cell Emigration out of the Lung Vasculature Requires Neutrophils and Monocyte-Derived Dendritic Cells in Inflammation. <i>Cell Reports</i> , 2016 , 16, 3260-3272	10.6	42
67	An expanded universe of cancer targets. <i>Cell</i> , 2021 , 184, 1142-1155	56.2	38
66	The emerging understanding of myeloid cells as partners and targets in tumor rejection. <i>Cancer Immunology Research</i> , 2015 , 3, 313-9	12.5	37
65	The immunological synapse: a dynamic platform for local signaling. <i>Journal of Clinical Immunology</i> , 2010 , 30, 364-72	5.7	34
64	Type I interferon autoantibodies are associated with systemic immune alterations in patients with COVID-19. <i>Science Translational Medicine</i> , 2021 , 13, eabh2624	17.5	34
63	ZipSeq: barcoding for real-time mapping of single cell transcriptomes. <i>Nature Methods</i> , 2020 , 17, 833-843	11.6	33
62	Control of an Unusual Photo-Claisen Rearrangement in Coumarin Caged Tamoxifen through an Extended Spacer. <i>ACS Chemical Biology</i> , 2017 , 12, 1001-1010	4.9	32
61	Mechanisms of T cell motility and arrest: deciphering the relationship between intra- and extracellular determinants. <i>Seminars in Immunology</i> , 2005 , 17, 387-99	10.7	32
60	Modes and mechanisms of T cell motility: roles for confinement and Myosin-IIA. <i>Current Opinion in Cell Biology</i> , 2014 , 30, 9-16	9	30
59	Deficiency of RAMP1 attenuates antigen-induced airway hyperresponsiveness in mice. <i>PLoS ONE</i> , 2014 , 9, e102356	3.7	30
58	Live imaging of the lung. <i>Current Protocols in Cytometry</i> , 2012 , Chapter 12, Unit12.28	3.6	30

57	Two-photon imaging of the immune system: a custom technology platform for high-speed, multicolor tissue imaging of immune responses. <i>Current Topics in Microbiology and Immunology</i> , 2009 , 334, 1-29	3.3	30
56	Paracrine costimulation of IFN- γ signaling by integrins modulates CD8 T cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11585-11590	11.5	28
55	Regulatory T cells use arginase 2 to enhance their metabolic fitness in tissues. <i>JCI Insight</i> , 2019 , 4,	9.9	27
54	Macrophages promote epithelial proliferation following infectious and non-infectious lung injury through a Trefoil Factor 2-dependent mechanism. <i>Mucosal Immunology</i> , 2019 , 12, 64-76	9.2	27
53	Cell-laden microwells for the study of multicellularity in lymphocyte fate decisions. <i>Biomaterials</i> , 2010 , 31, 3422-8	15.6	26
52	Antigen recognition in the islets changes with progression of autoimmune islet infiltration. <i>Journal of Immunology</i> , 2015 , 194, 522-30	5.3	24
51	Regulation of T-cell receptor signaling by the actin cytoskeleton and poroelastic cytoplasm. <i>Immunological Reviews</i> , 2013 , 256, 148-59	11.3	20
50	TGF- β -Dependent Dendritic Cell Chemokinesis in Murine Models of Airway Disease. <i>Journal of Immunology</i> , 2015 , 195, 1182-90	5.3	18
49	The spatiotemporal cellular dynamics of lung immunity. <i>Trends in Immunology</i> , 2014 , 35, 379-86	14.4	18
48	Tumor-infiltrating lymphocytes are dynamically desensitized to antigen but are maintained by homeostatic cytokine. <i>JCI Insight</i> , 2016 , 1, e89289	9.9	17
47	A septin requirement differentiates autonomous and contact-facilitated T cell proliferation. <i>Nature Immunology</i> , 2016 , 17, 315-22	19.1	16
46	Immunity as a continuum of archetypes. <i>Science</i> , 2019 , 364, 28-29	33.3	15
45	Reinvigorating NIH Grant Peer Review. <i>Immunity</i> , 2020 , 52, 1-3	32.3	13
44	Micro-Magellan: open-source, sample-adaptive, acquisition software for optical microscopy. <i>Nature Methods</i> , 2016 , 13, 807-809	21.6	13
43	Trefoil Factor 2 Promotes Type 2 Immunity and Lung Repair through Intrinsic Roles in Hematopoietic and Nonhematopoietic Cells. <i>American Journal of Pathology</i> , 2018 , 188, 1161-1170	5.8	10
42	Evolving immune circuits are generated by flexible, motile, and sequential immunological synapses. <i>Immunological Reviews</i> , 2013 , 251, 80-96	11.3	10
41	Discovering dominant tumor immune archetypes in a pan-cancer census.. <i>Cell</i> , 2021 ,	56.2	10
40	The WAVE complex associates with sites of saddle membrane curvature. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	9

39	Longitudinal single-cell epitope and RNA-sequencing reveals the immunological impact of type 1 interferon autoantibodies in critical COVID-19 2021 ,		9
38	Mast cells present protrusions into blood vessels upon tracheal allergen challenge in mice. <i>PLoS ONE</i> , 2015 , 10, e0118513	3.7	8
37	A critical role for dendritic cells in the evolution of IL-1 β -mediated murine airway disease. <i>Journal of Immunology</i> , 2015 , 194, 3962-9	5.3	8
36	Illuminating emergent activity in the immune system by real-time imaging. <i>Nature Immunology</i> , 2010 , 11, 554-7	19.1	7
35	Immunological synapses: breaking up may be good to do. <i>Cell</i> , 2007 , 129, 653-5	56.2	7
34	Spacer-Mediated Control of Coumarin Uncaging for Photocaged Thymidine. <i>Journal of Organic Chemistry</i> , 2020 , 85, 2945-2955	4.2	7
33	mDia1/3-dependent actin polymerization spatiotemporally controls LAT phosphorylation by Zap70 at the immune synapse. <i>Science Advances</i> , 2020 , 6, eaay2432	14.3	7
32	Subcellular Localization of Antigen in Keratinocytes Dictates Delivery of CD4 T-cell Help for the CTL Response upon Therapeutic DNA Vaccination into the Skin. <i>Cancer Immunology Research</i> , 2018 , 6, 835-847	12.5	7
31	Tracheal aspirate RNA sequencing identifies distinct immunological features of COVID-19 ARDS. <i>Nature Communications</i> , 2021 , 12, 5152	17.4	7
30	Targeting TREM2 on tumor-associated macrophages enhances immunotherapy. <i>Cell Reports</i> , 2021 , 37, 109844	10.6	6
29	SARS-CoV-2 infection studies in lung organoids identify TSPAN8 as novel mediator 2021 ,		6
28	Tracking the Spatial and Functional Gradient of Monocyte-To-Macrophage Differentiation in Inflamed Lung. <i>PLoS ONE</i> , 2016 , 11, e0165064	3.7	6
27	Tumor Immune Profiling-Based Neoadjuvant Immunotherapy for Locally Advanced Melanoma. <i>Annals of Surgical Oncology</i> , 2020 , 27, 4122-4130	3.1	5
26	Learned adaptive multiphoton illumination microscopy for large-scale immune response imaging. <i>Nature Communications</i> , 2021 , 12, 1916	17.4	5
25	Impaired antibacterial immune signaling and changes in the lung microbiome precede secondary bacterial pneumonia in COVID-19 2021 ,		5
24	DNGR-1 limits Flt3L-mediated antitumor immunity by restraining tumor-infiltrating type I conventional dendritic cells 2021 , 9,		5
23	Active surveillance characterizes human intratumoral T cell exhaustion. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	5
22	Imaging and Analysis of OT1 T Cell Activation on Lipid Bilayers. <i>Protocol Exchange</i> ,		4

21	ZipSeq : Barcoding for Real-time Mapping of Single Cell Transcriptomes		4
20	Lessons of COVID-19: A roadmap for post-pandemic science. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	4
19	Spatiotemporal Rank Filtering Improves Image Quality Compared to Frame Averaging in 2-Photon Laser Scanning Microscopy. <i>PLoS ONE</i> , 2016 , 11, e0150430	3.7	4
18	Universal Principled Review: A Community-Driven Method to Improve Peer Review. <i>Cell</i> , 2019 , 179, 1441-1445	5.4	4
17	Global Absence and Targeting of Protective Immune States in Severe COVID-19 2020 ,		3
16	WAVE complex self-organization templates lamellipodial formation		3
15	A Pan-Cancer Census of Dominant Tumor Immune Archetypes		3
14	Pulmonary natural killer cells control neutrophil intravascular motility and response to acute inflammation		2
13	A tumor-specific mechanism of T enrichment mediated by the integrin $\alpha 8$. <i>Science Immunology</i> , 2021 , 6,	28	2
12	Impaired immune signaling and changes in the lung microbiome precede secondary bacterial pneumonia in COVID-19 2021 ,		2
11	A "data sharing trust" model for rapid, collaborative science. <i>Cell</i> , 2021 , 184, 566-570	56.2	2
10	The subtle hands of self-reactivity in peripheral T cells. <i>Nature Immunology</i> , 2015 , 16, 10-1	19.1	1
9	Assessing and benchmarking multiphoton microscopes for biologists. <i>Methods in Cell Biology</i> , 2014 , 123, 135-51	1.8	1
8	Global Absence and Targeting of Protective Immune States in Severe COVID-19 2020 ,		1
7	Activating Immune Recognition in Pancreatic Ductal Adenocarcinoma via Autophagy Inhibition, MEK Blockade, and CD40 Agonism. <i>Gastroenterology</i> , 2021 ,	13.3	1
6	Active Surveillance Characterizes Human Intratumoral T Cell Exhaustion		1
5	Archetypes of checkpoint-responsive immunity. <i>Trends in Immunology</i> , 2021 , 42, 960-974	14.4	0
4	Layilin Anchors Regulatory T Cells in Skin. <i>Journal of Immunology</i> , 2021 , 207, 1763-1775	5.3	0

3	Holistic Characterization of Tumor Monocyte-to-Macrophage Differentiation Integrates Distinct Immune Phenotypes in Kidney Cancer.. <i>Cancer Immunology Research</i> , 2022 , 10, 403-419	12.5	○
2	Tumor-associated macrophage heterogeneity is driven by tissue territories in breast cancer. <i>Cell Reports</i> , 2022 , 39, 110865	10.6	○
1	Carpet-bombing tumors with IFN- γ <i>Nature Cancer</i> , 2020 , 1, 270-272	15.4	