

Matthew F Krummel

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

20,545
citations

38742

50
h-index

29157

104
g-index

134
all docs

134
docs citations

134
times ranked

28266
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the tumor immune microenvironment (TIME) for effective therapy. <i>Nature Medicine</i> , 2018, 24, 541-550.	30.7	3,421
2	Enhancement of Antitumor Immunity by CTLA-4 Blockade. <i>Science</i> , 1996, 271, 1734-1736.	12.6	3,231
3	Dendritic cells in cancer immunology and immunotherapy. <i>Nature Reviews Immunology</i> , 2020, 20, 7-24.	22.7	1,401
4	Dissecting the Tumor Myeloid Compartment Reveals Rare Activating Antigen-Presenting Cells Critical for T Cell Immunity. <i>Cancer Cell</i> , 2014, 26, 638-652.	16.8	911
5	Type 2 innate lymphoid cells control eosinophil homeostasis. <i>Nature</i> , 2013, 502, 245-248.	27.8	861
6	The lung is a site of platelet biogenesis and a reservoir for haematopoietic progenitors. <i>Nature</i> , 2017, 544, 105-109.	27.8	805
7	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.	16.8	717
8	A natural killerâ€“dendritic cell axis defines checkpoint therapyâ€“responsive tumor microenvironments. <i>Nature Medicine</i> , 2018, 24, 1178-1191.	30.7	679
9	Interactions between PD-1 and PD-L1 promote tolerance by blocking the TCRâ€“induced stop signal. <i>Nature Immunology</i> , 2009, 10, 1185-1192.	14.5	659
10	Unleashing Type-2 Dendritic Cells to Drive Protective Antitumor CD4+ T Cell Immunity. <i>Cell</i> , 2019, 177, 556-571.e16.	28.9	405
11	T cell migration, search strategies and mechanisms. <i>Nature Reviews Immunology</i> , 2016, 16, 193-201.	22.7	362
12	Visualization of immediate immune responses to pioneer metastatic cells in the lung. <i>Nature</i> , 2016, 531, 513-517.	27.8	348
13	Stabilized imaging of immune surveillance in the mouse lung. <i>Nature Methods</i> , 2011, 8, 91-96.	19.0	337
14	Marginating Dendritic Cells of the Tumor Microenvironment Cross-Present Tumor Antigens and Stably Engage Tumor-Specific T Cells. <i>Cancer Cell</i> , 2012, 21, 402-417.	16.8	288
15	TIM-3 Regulates CD103+ Dendritic Cell Function and Response to Chemotherapy in Breast Cancer. <i>Cancer Cell</i> , 2018, 33, 60-74.e6.	16.8	270
16	The NK cellâ€“cancer cycle: advances and new challenges in NK cellâ€“based immunotherapies. <i>Nature Immunology</i> , 2020, 21, 835-847.	14.5	243
17	Adventitial Stromal Cells Define Group 2 Innate Lymphoid Cell Tissue Niches. <i>Immunity</i> , 2019, 50, 707-722.e6.	14.3	234
18	Visualizing dynamic microvillar search and stabilization during ligand detection by T cells. <i>Science</i> , 2017, 356, .	12.6	225

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19	Chitin Activates Parallel Immune Modules that Direct Distinct Inflammatory Responses via Innate Lymphoid Type 2 and $\hat{I}^3\hat{I}$ T Cells. <i>Immunity</i> , 2014, 40, 414-424.	14.3	221
20	Global absence and targeting of protective immune states in severe COVID-19. <i>Nature</i> , 2021, 591, 124-130.	27.8	206
21	SCENITH: A Flow Cytometry-Based Method to Functionally Profile Energy Metabolism with Single-Cell Resolution. <i>Cell Metabolism</i> , 2020, 32, 1063-1075.e7.	16.2	189
22	Dynamics of the immunological synapse: finding, establishing and solidifying a connection. <i>Current Opinion in Immunology</i> , 2002, 14, 66-74.	5.5	178
23	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, 1183-1199.	8.5	162
24	Maintenance and modulation of T cell polarity. <i>Nature Immunology</i> , 2006, 7, 1143-1149.	14.5	160
25	Type I interferon autoantibodies are associated with systemic immune alterations in patients with COVID-19. <i>Science Translational Medicine</i> , 2021, 13, eabh2624.	12.4	155
26	The lung is a host defense niche for immediate neutrophil-mediated vascular protection. <i>Science Immunology</i> , 2017, 2, .	11.9	153
27	Secondary T cellâ€T cell synaptic interactions drive the differentiation of protective CD8+ T cells. <i>Nature Immunology</i> , 2013, 14, 356-363.	14.5	144
28	A Synaptic Basis for Paracrine Interleukin-2 Signaling during Homotypic T Cell Interaction. <i>Immunity</i> , 2008, 29, 238-248.	14.3	135
29	Visualizing Synaptic Transfer of Tumor Antigens among Dendritic Cells. <i>Cancer Cell</i> , 2020, 37, 786-799.e5.	16.8	135
30	An expanded universe of cancer targets. <i>Cell</i> , 2021, 184, 1142-1155.	28.9	135
31	Imaging Synapse Formation during Thymocyte Selection. <i>Immunity</i> , 2002, 16, 595-606.	14.3	134
32	Detection of Rare Antigen-Presenting Cells through T Cell-Intrinsic Meandering Motility, Mediated by Myo1g. <i>Cell</i> , 2014, 158, 492-505.	28.9	120
33	Targeting TREM2 on tumor-associated macrophages enhances immunotherapy. <i>Cell Reports</i> , 2021, 37, 109844.	6.4	120
34	Spatiotemporal co-dependency between macrophages and exhausted CD8+ T cells in cancer. <i>Cancer Cell</i> , 2022, 40, 624-638.e9.	16.8	113
35	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.	8.5	108
36	Tuning the Tumor Myeloid Microenvironment to Fight Cancer. <i>Frontiers in Immunology</i> , 2019, 10, 1611.	4.8	96

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37	Adaptive Immune Regulation of Mammary Postnatal Organogenesis. <i>Developmental Cell</i> , 2015, 34, 493-504.	7.0	91
38	ZipSeq: barcoding for real-time mapping of single cell transcriptomes. <i>Nature Methods</i> , 2020, 17, 833-843.	19.0	91
39	Pulmonary environmental cues drive group 2 innate lymphoid cell dynamics in mice and humans. <i>Science Immunology</i> , 2019, 4, .	11.9	89
40	STAT3 Establishes an Immunosuppressive Microenvironment during the Early Stages of Breast Carcinogenesis to Promote Tumor Growth and Metastasis. <i>Cancer Research</i> , 2016, 76, 1416-1428.	0.9	87
41	Control of cortical rigidity by the cytoskeleton: Emerging roles for septins. <i>Cytoskeleton</i> , 2010, 67, 477-486.	2.0	86
42	Integration of the movement of signaling microclusters with cellular motility in immunological synapses. <i>Nature Immunology</i> , 2012, 13, 787-795.	14.5	86
43	Regulation of T Cell Priming by Lymphoid Stroma. <i>PLoS ONE</i> , 2011, 6, e26138.	2.5	84
44	Discovering dominant tumor immune archetypes in a pan-cancer census. <i>Cell</i> , 2022, 185, 184-203.e19.	28.9	70
45	CCR2 Influences T Regulatory Cell Migration to Tumors and Serves as a Biomarker of Cyclophosphamide Sensitivity. <i>Cancer Research</i> , 2016, 76, 6483-6494.	0.9	64
46	Partially exhausted tumor-infiltrating lymphocytes predict response to combination immunotherapy. <i>JCI Insight</i> , 2017, 2, .	5.0	62
47	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.	2.5	60
48	Regulatory T cells use arginase 2 to enhance their metabolic fitness in tissues. <i>JCI Insight</i> , 2019, 4, .	5.0	60
49	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.	6.4	57
50	Leukotriene B4 amplifies eosinophil accumulation in response to nematodes. <i>Journal of Experimental Medicine</i> , 2014, 211, 1281-1288.	8.5	56
51	Antigen Recognition in the Islets Changes with Progression of Autoimmune Islet Infiltration. <i>Journal of Immunology</i> , 2015, 194, 522-530.	0.8	56
52	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.	7.1	54
53	The Emerging Understanding of Myeloid Cells as Partners and Targets in Tumor Rejection. <i>Cancer Immunology Research</i> , 2015, 3, 313-319.	3.4	53
54	Modes and mechanisms of T cell motility: roles for confinement and Myosin-IIA. <i>Current Opinion in Cell Biology</i> , 2014, 30, 9-16.	5.4	49

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55	Control of an Unusual Photo-Claisen Rearrangement in Coumarin Caged Tamoxifen through an Extended Spacer. <i>ACS Chemical Biology</i> , 2017, 12, 1001-1010.	3.4	48
56	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.	6.0	47
57	Tracheal aspirate RNA sequencing identifies distinct immunological features of COVID-19 ARDS. <i>Nature Communications</i> , 2021, 12, 5152.	12.8	47
58	Immunity as a continuum of archetypes. <i>Science</i> , 2019, 364, 28-29.	12.6	43
59	The Immunological Synapse: a Dynamic Platform for Local Signaling. <i>Journal of Clinical Immunology</i> , 2010, 30, 364-372.	3.8	37
60	Deficiency of RAMP1 Attenuates Antigen-Induced Airway Hyperresponsiveness in Mice. <i>PLoS ONE</i> , 2014, 9, e102356.	2.5	36
61	The WAVE complex associates with sites of saddle membrane curvature. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	36
62	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.	1.1	36
63	Tumor-associated macrophage heterogeneity is driven by tissue territories in breast cancer. <i>Cell Reports</i> , 2022, 39, 110865.	6.4	35
64	Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. <i>Science Immunology</i> , 2023, 8, .	11.9	35
65	Mechanisms of T cell motility and arrest: Deciphering the relationship between intra- and extracellular determinants. <i>Seminars in Immunology</i> , 2005, 17, 387-399.	5.6	34
66	Live Imaging of the Lung. , 2012, Chapter 12, Unit12.28.		34
67	Tumor-infiltrating lymphocytes are dynamically desensitized to antigen but are maintained by homeostatic cytokine. <i>JCI Insight</i> , 2016, 1, e89289.	5.0	34
68	COVID-19-associated Lung Microvascular Endotheliopathy: A From the Bench Perspective. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 961-972.	5.6	30
69	Cell-laden microwells for the study of multicellularity in lymphocyte fate decisions. <i>Biomaterials</i> , 2010, 31, 3422-3428.	11.4	29
70	Regulation of T cell receptor signaling by the actin cytoskeleton and poroelastic cytoplasm. <i>Immunological Reviews</i> , 2013, 256, 148-159.	6.0	25
71	Micro-Magellan: open-source, sample-adaptive, acquisition software for optical microscopy. <i>Nature Methods</i> , 2016, 13, 807-809.	19.0	24
72	The spatiotemporal cellular dynamics of lung immunity. <i>Trends in Immunology</i> , 2014, 35, 379-386.	6.8	22

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73	A septin requirement differentiates autonomous and contact-facilitated T cell proliferation. <i>Nature Immunology</i> , 2016, 17, 315-322.	14.5	22
74	DNGR-1 limits Flt3L-mediated antitumor immunity by restraining tumor-infiltrating type I conventional dendritic cells. , 2021, 9, e002054.		22
75	Active surveillance characterizes human intratumoral T cell exhaustion. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	22
76	Holistic Characterization of Tumor Monocyte-to-Macrophage Differentiation Integrates Distinct Immune Phenotypes in Kidney Cancer. <i>Cancer Immunology Research</i> , 2022, 10, 403-419.	3.4	22
77	Learned adaptive multiphoton illumination microscopy for large-scale immune response imaging. <i>Nature Communications</i> , 2021, 12, 1916.	12.8	21
78	Activating Immune Recognition in Pancreatic Ductal Adenocarcinoma via Autophagy Inhibition, MEK Blockade, and Î²4 Agonism. <i>Gastroenterology</i> , 2022, 162, 590-603.e14.	1.3	21
79	Reinvigorating NIH Grant Peer Review. <i>Immunity</i> , 2020, 52, 1-3.	14.3	20
80	TGF-Î²-Dependent Dendritic Cell Chemokinesis in Murine Models of Airway Disease. <i>Journal of Immunology</i> , 2015, 195, 1182-1190.	0.8	18
81	A tumor-specific mechanism of T _{reg} enrichment mediated by the integrin Î±8. <i>Science Immunology</i> , 2021, 6, .	11.9	17
82	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.	3.8	16
83	Evolving immune circuits are generated by flexible, motile, and sequential immunological synapses. <i>Immunological Reviews</i> , 2013, 251, 80-96.	6.0	15
84	Mast Cells Present Protrusions into Blood Vessels upon Tracheal Allergen Challenge in Mice. <i>PLoS ONE</i> , 2015, 10, e0118513.	2.5	12
85	Spacer-Mediated Control of Coumarin Uncaging for Photocaged Thymidine. <i>Journal of Organic Chemistry</i> , 2020, 85, 2945-2955.	3.2	12
86	Tracking the Spatial and Functional Gradient of Monocyte-To-Macrophage Differentiation in Inflamed Lung. <i>PLoS ONE</i> , 2016, 11, e0165064.	2.5	11
87	A Critical Role for Dendritic Cells in the Evolution of IL-1Î²-Mediated Murine Airway Disease. <i>Journal of Immunology</i> , 2015, 194, 3962-3969.	0.8	10
88	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.	3.4	10
89	Immunological Synapses: Breaking Up May Be Good to Do. <i>Cell</i> , 2007, 129, 653-655.	28.9	9
90	Illuminating emergent activity in the immune system by real-time imaging. <i>Nature Immunology</i> , 2010, 11, 554-557.	14.5	9

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91	mDia1/3-dependent actin polymerization spatiotemporally controls LAT phosphorylation by Zap70 at the immune synapse. <i>Science Advances</i> , 2020, 6, eaay2432.	10.3	9
92	Mass cytometry reveals a conserved immune trajectory of recovery in hospitalized COVID-19 patients. <i>Immunity</i> , 2022, , .	14.3	9
93	Lessons of COVID-19: A roadmap for post-pandemic science. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	8
94	A "data sharing trust" model for rapid, collaborative science. <i>Cell</i> , 2021, 184, 566-570.	28.9	8
95	Tumor Immune Profiling-Based Neoadjuvant Immunotherapy for Locally Advanced Melanoma. <i>Annals of Surgical Oncology</i> , 2020, 27, 4122-4130.	1.5	7
96	Imaging and Analysis of OT1 T Cell Activation on Lipid Bilayers. <i>Protocol Exchange</i> , 0, , .	0.3	7
97	Visualizing Spatial and Stoichiometric Barriers to Bispecific T-Cell Engager Efficacy. <i>Cancer Immunology Research</i> , 2022, 10, 698-712.	3.4	7
98	Universal Principled Review: A Community-Driven Method to Improve Peer Review. <i>Cell</i> , 2019, 179, 1441-1445.	28.9	6
99	Spatiotemporal Rank Filtering Improves Image Quality Compared to Frame Averaging in 2-Photon Laser Scanning Microscopy. <i>PLoS ONE</i> , 2016, 11, e0150430.	2.5	5
100	Layilin Anchors Regulatory T Cells in Skin. <i>Journal of Immunology</i> , 2021, 207, 1763-1775.	0.8	5
101	Archetypes of checkpoint-responsive immunity. <i>Trends in Immunology</i> , 2021, 42, 960-974.	6.8	5
102	Testing the organization of the immunological synapse. <i>Current Opinion in Immunology</i> , 2007, 19, 460-462.	5.5	3
103	Distinct functions for HS1 in chemosensory versus adhesive signaling. <i>Nature Immunology</i> , 2008, 9, 833-834.	14.5	2
104	Assessing and benchmarking multiphoton microscopes for biologists. <i>Methods in Cell Biology</i> , 2014, 123, 135-151.	1.1	1
105	The subtle hands of self-reactivity in peripheral T cells. <i>Nature Immunology</i> , 2015, 16, 10-11.	14.5	1
106	Carpet-bombing tumors with IFN- γ . <i>Nature Cancer</i> , 2020, 1, 270-272.	18.2	1