

Mark M Davis

List of Publications by Year in descending order

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Version: 2024-02-01

279
papers

56,053
citations

872

117
h-index

1284

225
g-index

302
all docs

302
docs citations

302
times ranked

49535
citing authors

#	ARTICLE	IF	CITATIONS
1	T-cell antigen receptor genes and T-cell recognition. <i>Nature</i> , 1988, 334, 395-402.	27.8	3,008
2	The Immunological Synapse: A Molecular Machine Controlling T Cell Activation. <i>Science</i> , 1999, 285, 221-227.	12.6	2,861
3	Isolation of cDNA clones encoding T cell-specific membrane-associated proteins. <i>Nature</i> , 1984, 308, 149-153.	27.8	1,220
4	miR-181a Is an Intrinsic Modulator of T Cell Sensitivity and Selection. <i>Cell</i> , 2007, 129, 147-161.	28.9	1,088
5	Characterization of circulating T cells specific for tumor-associated antigens in melanoma patients. <i>Nature Medicine</i> , 1999, 5, 677-685.	30.7	1,033
6	Clonal replacement of tumor-specific T cells following PD-1 blockade. <i>Nature Medicine</i> , 2019, 25, 1251-1259.	30.7	974
7	Organoid Modeling of the Tumor Immune Microenvironment. <i>Cell</i> , 2018, 175, 1972-1988.e16.	28.9	870
8	LIGAND RECOGNITION BY $\alpha\beta$ T CELL RECEPTORS. <i>Annual Review of Immunology</i> , 1998, 16, 523-544.	21.8	852
9	Variation in the Human Immune System Is Largely Driven by Non-Heritable Influences. <i>Cell</i> , 2015, 160, 37-47.	28.9	828
10	Identifying specificity groups in the T cell receptor repertoire. <i>Nature</i> , 2017, 547, 94-98.	27.8	825
11	THE IMMUNOLOGICAL SYNAPSE. <i>Annual Review of Immunology</i> , 2001, 19, 375-396.	21.8	821
12	Human Circulating PD-1+CXCR3 ^{hi} CXCR5+ Memory Tfh Cells Are Highly Functional and Correlate with Broadly Neutralizing HIV Antibody Responses. <i>Immunity</i> , 2013, 39, 758-769.	14.3	790
13	Sequence relationships between putative T-cell receptor polypeptides and immunoglobulins. <i>Nature</i> , 1984, 308, 153-158.	27.8	725
14	Direct observation of ligand recognition by T cells. <i>Nature</i> , 2002, 419, 845-849.	27.8	725
15	Diversity in the CDR3 Region of VH Is Sufficient for Most Antibody Specificities. <i>Immunity</i> , 2000, 13, 37-45.	14.3	693
16	Evidence that specific T lymphocytes may participate in the elimination of chronic myelogenous leukemia. <i>Nature Medicine</i> , 2000, 6, 1018-1023.	30.7	651
17	Multiple early factors anticipate post-acute COVID-19 sequelae. <i>Cell</i> , 2022, 185, 881-895.e20.	28.9	605
18	TCR and Lat are expressed on separate protein islands on T cell membranes and concatenate during activation. <i>Nature Immunology</i> , 2010, 11, 90-96.	14.5	571

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19	Systems analysis of sex differences reveals an immunosuppressive role for testosterone in the response to influenza vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 869-874.	7.1	542
20	Clonally expanded CD8 T cells patrol the cerebrospinal fluid in Alzheimer's disease. <i>Nature</i> , 2020, 577, 399-404.	27.8	537
21	Cytometry by Time-of-Flight Shows Combinatorial Cytokine Expression and Virus-Specific Cell Niches within a Continuum of CD8+ T Cell Phenotypes. <i>Immunity</i> , 2012, 36, 142-152.	14.3	534
22	Mapping T-cell receptor-peptide contacts by variant peptide immunization of single-chain transgenics. <i>Nature</i> , 1992, 355, 224-230.	27.8	512
23	T-cell-antigen recognition and the immunological synapse. <i>Nature Reviews Immunology</i> , 2003, 3, 973-983.	22.7	506
24	T cell killing does not require the formation of a stable mature immunological synapse. <i>Nature Immunology</i> , 2004, 5, 524-530.	14.5	496
25	A third type of murine T-cell receptor gene. <i>Nature</i> , 1984, 312, 31-35.	27.8	494
26	Genetic and Environmental Determinants of Human NK Cell Diversity Revealed by Mass Cytometry. <i>Science Translational Medicine</i> , 2013, 5, 208ra145.	12.4	491
27	A Kinetic Basis For T Cell Receptor Repertoire Selection during an Immune Response. <i>Immunity</i> , 1999, 10, 485-492.	14.3	483
28	Deconstructing the Peptide-MHC Specificity of T Cell Recognition. <i>Cell</i> , 2014, 157, 1073-1087.	28.9	483
29	A new T-cell receptor gene located within the alpha locus and expressed early in T-cell differentiation. <i>Nature</i> , 1987, 327, 677-682.	27.8	473
30	CD95 (Fas)-dependent elimination of self-reactive B cells upon interaction with CD4+T cells. <i>Nature</i> , 1995, 376, 181-184.	27.8	473
31	Hypoimmunogenic derivatives of induced pluripotent stem cells evade immune rejection in fully immunocompetent allogeneic recipients. <i>Nature Biotechnology</i> , 2019, 37, 252-258.	17.5	470
32	Human immune system variation. <i>Nature Reviews Immunology</i> , 2017, 17, 21-29.	22.7	466
33	Linking T-cell receptor sequence to functional phenotype at the single-cell level. <i>Nature Biotechnology</i> , 2014, 32, 684-692.	17.5	457
34	TCR-peptide-MHC interactions in situ show accelerated kinetics and increased affinity. <i>Nature</i> , 2010, 463, 963-967.	27.8	449
35	Multi-Omics Resolves a Sharp Disease-State Shift between Mild and Moderate COVID-19. <i>Cell</i> , 2020, 183, 1479-1495.e20.	28.9	449
36	Somatic recombination in a murine T-cell receptor gene. <i>Nature</i> , 1984, 309, 322-326.	27.8	448

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37	Thymic Selection Determines $\hat{\gamma}$ T Cell Effector Fate: Antigen-Naive Cells Make Interleukin-17 and Antigen-Experienced Cells Make Interferon $\hat{\gamma}$. <i>Immunity</i> , 2008, 29, 90-100.	14.3	430
38	Melanocyte Destruction after Antigen-Specific Immunotherapy of Melanoma. <i>Journal of Experimental Medicine</i> , 2000, 192, 1637-1644.	8.5	414
39	Virus-Specific CD4+ Memory-Phenotype T Cells Are Abundant in Unexposed Adults. <i>Immunity</i> , 2013, 38, 373-383.	14.3	404
40	T cells use two directionally distinct pathways for cytokine secretion. <i>Nature Immunology</i> , 2006, 7, 247-255.	14.5	396
41	A TCR Binds to Antagonist Ligands with Lower Affinities and Faster Dissociation Rates Than to Agonists. <i>Immunity</i> , 1996, 5, 53-61.	14.3	395
42	Genomic organization and sequence of T-cell receptor $\hat{\gamma}$ -chain constant- and joining-region genes. <i>Nature</i> , 1984, 310, 387-391.	27.8	386
43	Plasma membrane-associated proteins are clustered into islands attached to the cytoskeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18992-18997.	7.1	370
44	Continuous T cell receptor signaling required for synapse maintenance and full effector potential. <i>Nature Immunology</i> , 2003, 4, 749-755.	14.5	366
45	Differential Clustering of CD4 and CD3zeta During T Cell Recognition. <i>Science</i> , 2000, 289, 1349-1352.	12.6	354
46	Single-cell analysis reveals T cell infiltration in old neurogenic niches. <i>Nature</i> , 2019, 571, 205-210.	27.8	351
47	Initiation of Signal Transduction through the T Cell Receptor Requires the Multivalent Engagement of Peptide/MHC Ligands. <i>Immunity</i> , 1998, 9, 459-466.	14.3	349
48	Lineage Structure of the Human Antibody Repertoire in Response to Influenza Vaccination. <i>Science Translational Medicine</i> , 2013, 5, 171ra19.	12.4	339
49	The adult T-cell receptor δ -chain is diverse and distinct from that of fetal thymocytes. <i>Nature</i> , 1988, 331, 627-631.	27.8	333
50	CXCL13 is a plasma biomarker of germinal center activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2702-2707.	7.1	322
51	T-cell receptor $\hat{\gamma}$ gene rearrangements in early thymocytes. <i>Nature</i> , 1987, 330, 722-727.	27.8	319
52	A Single Peptide-Major Histocompatibility Complex Ligand Triggers Digital Cytokine Secretion in CD4+ T Cells. <i>Immunity</i> , 2013, 39, 846-857.	14.3	317
53	A clinically meaningful metric of immune age derived from high-dimensional longitudinal monitoring. <i>Nature Medicine</i> , 2019, 25, 487-495.	30.7	317
54	A Prescription for Human Immunology. <i>Immunity</i> , 2008, 29, 835-838.	14.3	315

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55	Agonist/endogenous peptide-MHC heterodimers drive T cell activation and sensitivity. <i>Nature</i> , 2005, 434, 238-243.	27.8	313
56	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. <i>Nature</i> , 2021, 596, 410-416.	27.8	313
57	The zinc finger transcriptional repressor Blimp1/Prdm1 is dispensable for early axis formation but is required for specification of primordial germ cells in the mouse. <i>Development (Cambridge)</i> , 2005, 132, 1315-1325.	2.5	307
58	Expression of specific inflammasome gene modules stratifies older individuals into two extreme clinical and immunological states. <i>Nature Medicine</i> , 2017, 23, 174-184.	30.7	304
59	A human vaccine strategy based on chimpanzee adenoviral and MVA vectors that primes, boosts, and sustains functional HCV-specific T cell memory. <i>Science Translational Medicine</i> , 2014, 6, 261ra153.	12.4	297
60	Costimulation and endogenous MHC ligands contribute to T cell recognition. <i>Nature Immunology</i> , 2002, 3, 42-47.	14.5	285
61	Clinical recovery from surgery correlates with single-cell immune signatures. <i>Science Translational Medicine</i> , 2014, 6, 255ra131.	12.4	285
62	Cytokine signature associated with disease severity in chronic fatigue syndrome patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7150-E7158.	7.1	283
63	Analyzing the <i>Mycobacterium tuberculosis</i> immune response by T-cell receptor clustering with GLIPH2 and genome-wide antigen screening. <i>Nature Biotechnology</i> , 2020, 38, 1194-1202.	17.5	282
64	Cytomegalovirus infection enhances the immune response to influenza. <i>Science Translational Medicine</i> , 2015, 7, 281ra43.	12.4	277
65	Progenitor identification and SARS-CoV-2 infection in human distal lung organoids. <i>Nature</i> , 2020, 588, 670-675.	27.8	273
66	Molecular-level analysis of the serum antibody repertoire in young adults before and after seasonal influenza vaccination. <i>Nature Medicine</i> , 2016, 22, 1456-1464.	30.7	271
67	Limited efficacy of inactivated influenza vaccine in elderly individuals is associated with decreased production of vaccine-specific antibodies. <i>Journal of Clinical Investigation</i> , 2011, 121, 3109-3119.	8.2	268
68	Combinatorial tetramer staining and mass cytometry analysis facilitate T-cell epitope mapping and characterization. <i>Nature Biotechnology</i> , 2013, 31, 623-629.	17.5	265
69	CD161 Defines a Transcriptional and Functional Phenotype across Distinct Human T Cell Lineages. <i>Cell Reports</i> , 2014, 9, 1075-1088.	6.4	264
70	Two-step binding mechanism for T-cell receptor recognition of peptide-MHC. <i>Nature</i> , 2002, 418, 552-556.	27.8	258
71	Single-Cell Chromatin Modification Profiling Reveals Increased Epigenetic Variations with Aging. <i>Cell</i> , 2018, 173, 1385-1397.e14.	28.9	250
72	Clonal Deletion Prunes but Does Not Eliminate Self-Specific $\hat{1}\hat{2}$ CD8+ T Lymphocytes. <i>Immunity</i> , 2015, 42, 929-941.	14.3	248

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73	Human Responses to Influenza Vaccination Show Seroconversion Signatures and Convergent Antibody Rearrangements. <i>Cell Host and Microbe</i> , 2014, 16, 105-114.	11.0	246
74	Evidence that Structural Rearrangements and/or Flexibility during TCR Binding Can Contribute to T Cell Activation. <i>Molecular Cell</i> , 2003, 12, 1367-1378.	9.7	243
75	Immune imprinting, breadth of variant recognition, and germinal center response in human SARS-CoV-2 infection and vaccination. <i>Cell</i> , 2022, 185, 1025-1040.e14.	28.9	243
76	An endogenous positively selecting peptide enhances mature T cell responses and becomes an autoantigen in the absence of microRNA miR-181a. <i>Nature Immunology</i> , 2009, 10, 1162-1169.	14.5	235
77	Antigen presentation profiling reveals recognition of lymphoma immunoglobulin neoantigens. <i>Nature</i> , 2017, 543, 723-727.	27.8	232
78	High-Dimensional Phenotypic Mapping of Human Dendritic Cells Reveals Interindividual Variation and Tissue Specialization. <i>Immunity</i> , 2017, 47, 1037-1050.e6.	14.3	231
79	Isolation of a Structural Mechanism for Uncoupling T Cell Receptor Signaling from Peptide-MHC Binding. <i>Cell</i> , 2018, 174, 672-687.e27.	28.9	229
80	CD4 enhances T cell sensitivity to antigen by coordinating Lck accumulation at the immunological synapse. <i>Nature Immunology</i> , 2004, 5, 791-799.	14.5	228
81	Antigen Identification for Orphan T Cell Receptors Expressed on Tumor-Infiltrating Lymphocytes. <i>Cell</i> , 2018, 172, 549-563.e16.	28.9	226
82	Ligand-specific oligomerization of T-cell receptor molecules. <i>Nature</i> , 1997, 387, 617-620.	27.8	221
83	Automatic Classification of Cellular Expression by Nonlinear Stochastic Embedding (ACCENSE). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 202-207.	7.1	220
84	Spatial and Temporal Dynamics of T Cell Receptor Signaling with a Photoactivatable Agonist. <i>Immunity</i> , 2007, 27, 76-88.	14.3	218
85	Predicting HLA class II antigen presentation through integrated deep learning. <i>Nature Biotechnology</i> , 2019, 37, 1332-1343.	17.5	218
86	Induction of Rapid T Cell Activation and Tolerance by Systemic Presentation of an Orally Administered Antigen. <i>Immunity</i> , 1998, 8, 667-673.	14.3	207
87	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. <i>Nature Aging</i> , 2021, 1, 598-615.	11.6	202
88	High-throughput, high-fidelity HLA genotyping with deep sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8676-8681.	7.1	200
89	Systems immunology: just getting started. <i>Nature Immunology</i> , 2017, 18, 725-732.	14.5	194
90	Chronic myelogenous leukemia shapes host immunity by selective deletion of high-avidity leukemia-specific T cells. <i>Journal of Clinical Investigation</i> , 2003, 111, 639-647.	8.2	189

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91	Distinct TCR signaling pathways drive proliferation and cytokine production in T cells. <i>Nature Immunology</i> , 2013, 14, 262-270.	14.5	188
92	OpenCyto: An Open Source Infrastructure for Scalable, Robust, Reproducible, and Automated, End-to-End Flow Cytometry Data Analysis. <i>PLoS Computational Biology</i> , 2014, 10, e1003806.	3.2	185
93	Shouts, whispers and the kiss of death: directional secretion in T cells. <i>Nature Immunology</i> , 2008, 9, 1105-1111.	14.5	184
94	A multi-cohort study of the immune factors associated with M. tuberculosis infection outcomes. <i>Nature</i> , 2018, 560, 644-648.	27.8	184
95	“MIATA” Minimal Information about T Cell Assays. <i>Immunity</i> , 2009, 31, 527-528.	14.3	178
96	Dietary gluten triggers concomitant activation of CD4 ⁺ and CD8 ⁺ T cells and $\hat{I}^{\hat{I}}$ T cells in celiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13073-13078.	7.1	178
97	A single class II myosin modulates T cell motility and stopping, but not synapse formation. <i>Nature Immunology</i> , 2004, 5, 531-538.	14.5	177
98	Apoptosis and other immune biomarkers predict influenza vaccine responsiveness. <i>Molecular Systems Biology</i> , 2013, 9, 659.	7.2	173
99	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, 16916-16921.	7.1	167
100	Effects of Aging, Cytomegalovirus Infection, and EBV Infection on Human B Cell Repertoires. <i>Journal of Immunology</i> , 2014, 192, 603-611.	0.8	166
101	Adaptive Immune Receptor Repertoire Community recommendations for sharing immune-repertoire sequencing data. <i>Nature Immunology</i> , 2017, 18, 1274-1278.	14.5	163
102	Localization of a T-cell receptor diversity-region element. <i>Nature</i> , 1984, 310, 421-423.	27.8	161
103	Identification and sequence of a fourth human T cell antigen receptor chain. <i>Nature</i> , 1987, 330, 569-572.	27.8	161
104	An Integrated Multi-omic Single-Cell Atlas of Human B Cell Identity. <i>Immunity</i> , 2020, 53, 217-232.e5.	14.3	161
105	Simultaneous detection of many T-cell specificities using combinatorial tetramer staining. <i>Nature Methods</i> , 2009, 6, 497-499.	19.0	158
106	Dynamics of p56lck Translocation to the T Cell Immunological Synapse following Agonist and Antagonist Stimulation. <i>Immunity</i> , 2002, 17, 809-822.	14.3	155
107	Inhibition of T cell receptor signaling by cholesterol sulfate, a naturally occurring derivative of membrane cholesterol. <i>Nature Immunology</i> , 2016, 17, 844-850.	14.5	152
108	<i>Bifidobacterium</i> can mitigate intestinal immunopathology in the context of CTLA-4 blockade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 157-161.	7.1	152

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109	Phenotypic differences between $\hat{I}^{\pm}\hat{I}^2$ versus \hat{I}^2 T-cell receptor transgenic mice undergoing negative selection. <i>Nature</i> , 1989, 340, 559-562.	27.8	148
110	The science and medicine of human immunology. <i>Science</i> , 2020, 369, .	12.6	147
111	Cardiovascular Complications in Patients with COVID-19: Consequences of Viral Toxicities and Host Immune Response. <i>Current Cardiology Reports</i> , 2020, 22, 32.	2.9	146
112	Variability and repertoire size of T-cell receptor $\hat{V}\hat{I}^{\pm}$ gene segments. <i>Nature</i> , 1985, 317, 430-434.	27.8	145
113	T Cells as a Self-Referential, Sensory Organ. <i>Annual Review of Immunology</i> , 2007, 25, 681-695.	21.8	141
114	Opposing T cell responses in experimental autoimmune encephalomyelitis. <i>Nature</i> , 2019, 572, 481-487.	27.8	141
115	Comprehensive T cell repertoire characterization of non-small cell lung cancer. <i>Nature Communications</i> , 2020, 11, 603.	12.8	140
116	Identification of Self Through Two-Dimensional Chemistry and Synapses. <i>Annual Review of Cell and Developmental Biology</i> , 2001, 17, 133-157.	9.4	139
117	Mapping and Quantification of Over 2000 O-linked Glycopeptides in Activated Human T Cells with Isotope-Targeted Glycoproteomics (Isotag). <i>Molecular and Cellular Proteomics</i> , 2018, 17, 764-775.	3.8	138
118	Beyond model antigens: high-dimensional methods for the analysis of antigen-specific T cells. <i>Nature Biotechnology</i> , 2014, 32, 149-157.	17.5	135
119	Imaging Synapse Formation during Thymocyte Selection. <i>Immunity</i> , 2002, 16, 595-606.	14.3	134
120	Expression of genes of the T-cell antigen receptor complex in precursor thymocytes. <i>Nature</i> , 1985, 315, 765-768.	27.8	133
121	<i>Bifidobacterium</i> alters the gut microbiota and modulates the functional metabolism of T regulatory cells in the context of immune checkpoint blockade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27509-27515.	7.1	133
122	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. <i>Cell</i> , 2021, 184, 3915-3935.e21.	28.9	133
123	Modeling human adaptive immune responses with tonsil organoids. <i>Nature Medicine</i> , 2021, 27, 125-135.	30.7	133
124	Human B-cell isotype switching origins of IgE. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 579-586.e7.	2.9	132
125	A model for harmonizing flow cytometry in clinical trials. <i>Nature Immunology</i> , 2010, 11, 975-978.	14.5	130
126	Leveraging heterogeneity across multiple datasets increases cell-mixture deconvolution accuracy and reduces biological and technical biases. <i>Nature Communications</i> , 2018, 9, 4735.	12.8	128

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127	Autologous iPSC-Based Vaccines Elicit Anti-tumor Responses In Vivo. <i>Cell Stem Cell</i> , 2018, 22, 501-513.e7.	11.1	125
128	Transcript-indexed ATAC-seq for precision immune profiling. <i>Nature Medicine</i> , 2018, 24, 580-590.	30.7	124
129	Individual heritable differences result in unique cell lymphocyte receptor repertoires of naïve and antigen-experienced cells. <i>Nature Communications</i> , 2016, 7, 11112.	12.8	123
130	Multicohort analysis reveals baseline transcriptional predictors of influenza vaccination responses. <i>Science Immunology</i> , 2017, 2, .	11.9	122
131	Emergent high fatality lung disease in systemic juvenile arthritis. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 1722-1731.	0.9	122
132	Phylogenetic analysis of the human antibody repertoire reveals quantitative signatures of immune senescence and aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1105-1110.	7.1	120
133	Successful immunotherapy induces previously unidentified allergen-specific CD4+ T-cell subsets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1286-95.	7.1	115
134	CD8 ⁺ T cells specific for conserved coronavirus epitopes correlate with milder disease in patients with COVID-19. <i>Science Immunology</i> , 2021, 6, .	11.9	115
135	CD4 ⁺ T-cell synapses involve multiple distinct stages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17099-17104.	7.1	114
136	Lineage tracing of human B cells reveals the in vivo landscape of human antibody class switching. <i>ELife</i> , 2016, 5, .	6.0	113
137	Injectable Hydrogels for Sustained Codelivery of Subunit Vaccines Enhance Humoral Immunity. <i>ACS Central Science</i> , 2020, 6, 1800-1812.	11.3	113
138	KIR ⁺ CD8 ⁺ T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19. <i>Science</i> , 2022, 376, eabi9591.	12.6	113
139	Distinct phenotype of CD4+ T cells driving celiac disease identified in multiple autoimmune conditions. <i>Nature Medicine</i> , 2019, 25, 734-737.	30.7	112
140	Defective Signaling in the JAK-STAT Pathway Tracks with Chronic Inflammation and Cardiovascular Risk in Aging Humans. <i>Cell Systems</i> , 2016, 3, 374-384.e4.	6.2	107
141	Interrogating the repertoire: broadening the scope of peptide-MHC multimer analysis. <i>Nature Reviews Immunology</i> , 2011, 11, 551-558.	22.7	106
142	Dynamics of Cell Surface Molecules During T Cell Recognition. <i>Annual Review of Biochemistry</i> , 2003, 72, 717-742.	11.1	105
143	A Macrophage Colony-Stimulating-Factor-Producing $\gamma\delta$ T Cell Subset Prevents Malarial Parasitemic Recurrence. <i>Immunity</i> , 2018, 48, 350-363.e7.	14.3	105
144	Continuous immunotypes describe human immune variation and predict diverse responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6097-E6106.	7.1	104

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145	CD4 Augments the Response of a T Cell to Agonist but Not to Antagonist Ligands. <i>Immunity</i> , 1997, 7, 379-385.	14.3	103
146	New approaches to understanding the immune response to vaccination and infection. <i>Vaccine</i> , 2015, 33, 5271-5281.	3.8	103
147	T-cell receptor ligation induces distinct signaling pathways in naïve vs. antigen-experienced T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1549-1554.	7.1	96
148	Enhanced natural killer-cell and T-cell responses to influenza A virus during pregnancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14506-14511.	7.1	95
149	CD4 ⁺ T cells contribute to neurodegeneration in Lewy body dementia. <i>Science</i> , 2021, 374, 868-874.	12.6	92
150	Antibodies elicited by SARS-CoV-2 infection or mRNA vaccines have reduced neutralizing activity against Beta and Omicron pseudoviruses. <i>Science Translational Medicine</i> , 2022, 14, eabn7842.	12.4	92
151	Detection, phenotyping, and quantification of antigen-specific T cells using a peptide-MHC dodecamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1890-7.	7.1	90
152	A Murine T Cell Receptor Gene Complex: Isolation, Structure and Rearrangement. <i>Immunological Reviews</i> , 1984, 81, 235-258.	6.0	87
153	CD4 ⁺ T Cell Autoimmunity to Hypocretin/Orexin and Cross-Reactivity to a 2009 H1N1 Influenza A Epitope in Narcolepsy. <i>Science Translational Medicine</i> , 2013, 5, 216ra176.	12.4	83
154	How the immune system talks to itself: the varied role of synapses. <i>Immunological Reviews</i> , 2013, 251, 65-79.	6.0	83
155	Integrated analysis of plasma and single immune cells uncovers metabolic changes in individuals with COVID-19. <i>Nature Biotechnology</i> , 2022, 40, 110-120.	17.5	81
156	Global analysis of shared T cell specificities in human non-small cell lung cancer enables HLA inference and antigen discovery. <i>Immunity</i> , 2021, 54, 586-602.e8.	14.3	80
157	Marked Differences in Human Melanoma Antigen-Specific T Cell Responsiveness after Vaccination Using a Functional Microarray. <i>PLoS Medicine</i> , 2005, 2, e265.	8.4	77
158	IgH sequences in common variable immune deficiency reveal altered B cell development and selection. <i>Science Translational Medicine</i> , 2015, 7, 302ra135.	12.4	77
159	A Kinetic Window Constricts the T Cell Receptor Repertoire in the Thymus. <i>Immunity</i> , 2001, 14, 243-252.	14.3	73
160	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity. <i>Science Translational Medicine</i> , 2022, 14, eabm7853.	12.4	71
161	Global Analysis of O-GlcNAc Glycoproteins in Activated Human T Cells. <i>Journal of Immunology</i> , 2016, 197, 3086-3098.	0.8	70
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