

Mark M Davis

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.

280
papers

42,114
citations

105
h-index

203
g-index

302
ext. papers

50,311
ext. citations

22.7
avg, IF

7.39
L-index

#	Paper	IF	Citations
280	T-cell antigen receptor genes and T-cell recognition. <i>Nature</i> , 1988 , 334, 395-402	50.4	2597
279	The immunological synapse: a molecular machine controlling T cell activation. <i>Science</i> , 1999 , 285, 221-7	33.3	2526
278	Isolation of cDNA clones encoding T cell-specific membrane-associated proteins. <i>Nature</i> , 1984 , 308, 149-53	50.4	1080
277	miR-181a is an intrinsic modulator of T cell sensitivity and selection. <i>Cell</i> , 2007 , 129, 147-61	56.2	970
276	Characterization of circulating T cells specific for tumor-associated antigens in melanoma patients. <i>Nature Medicine</i> , 1999 , 5, 677-85	50.5	947
275	Ligand recognition by alpha beta T cell receptors. <i>Annual Review of Immunology</i> , 1998 , 16, 523-44	34.7	772
274	The immunological synapse. <i>Annual Review of Immunology</i> , 2001 , 19, 375-96	34.7	732
273	Sequence relationships between putative T-cell receptor polypeptides and immunoglobulins. <i>Nature</i> , 1984 , 308, 153-8	50.4	662
272	Direct observation of ligand recognition by T cells. <i>Nature</i> , 2002 , 419, 845-9	50.4	617
271	Human circulating PD-1+CXCR3-CXCR5+ memory Tfh cells are highly functional and correlate with broadly neutralizing HIV antibody responses. <i>Immunity</i> , 2013 , 39, 758-69	32.3	613
270	Variation in the human immune system is largely driven by non-heritable influences. <i>Cell</i> , 2015 , 160, 37-47	56.2	586
269	Evidence that specific T lymphocytes may participate in the elimination of chronic myelogenous leukemia. <i>Nature Medicine</i> , 2000 , 6, 1018-23	50.5	581
268	Diversity in the CDR3 region of V(H) is sufficient for most antibody specificities. <i>Immunity</i> , 2000 , 13, 37-45	32.3	547
267	TCR and Lat are expressed on separate protein islands on T cell membranes and concatenate during activation. <i>Nature Immunology</i> , 2010 , 11, 90-6	19.1	498
266	Organoid Modeling of the Tumor Immune Microenvironment. <i>Cell</i> , 2018 , 175, 1972-1988.e16	56.2	478
265	Clonal replacement of tumor-specific T cells following PD-1 blockade. <i>Nature Medicine</i> , 2019 , 25, 1251-1259	56.2	472
264	Mapping T-cell receptor-peptide contacts by variant peptide immunization of single-chain transgenics. <i>Nature</i> , 1992 , 355, 224-30	50.4	472

263	Identifying specificity groups in the T cell receptor repertoire. <i>Nature</i> , 2017 , 547, 94-98	50.4	468
262	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, 142-52	32.3	461
261	A third type of murine T-cell receptor gene. <i>Nature</i> , 1984 , 312, 31-5	50.4	455
260	A kinetic basis for T cell receptor repertoire selection during an immune response. <i>Immunity</i> , 1999 , 10, 485-92	32.3	444
259	A new T-cell receptor gene located within the alpha locus and expressed early in T-cell differentiation. <i>Nature</i> , 1987 , 327, 677-82	50.4	432
258	T cell killing does not require the formation of a stable mature immunological synapse. <i>Nature Immunology</i> , 2004 , 5, 524-30	19.1	427
257	CD95 (Fas)-dependent elimination of self-reactive B cells upon interaction with CD4+ T cells. <i>Nature</i> , 1995 , 376, 181-4	50.4	426
256	T-cell-antigen recognition and the immunological synapse. <i>Nature Reviews Immunology</i> , 2003 , 3, 973-83	36.5	421
255	Somatic recombination in a murine T-cell receptor gene. <i>Nature</i> , 1984 , 309, 322-6	50.4	410
254	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, 869-74	11.5	390
253	Melanocyte destruction after antigen-specific immunotherapy of melanoma: direct evidence of t cell-mediated vitiligo. <i>Journal of Experimental Medicine</i> , 2000 , 192, 1637-44	16.6	374
252	Genetic and environmental determinants of human NK cell diversity revealed by mass cytometry. <i>Science Translational Medicine</i> , 2013 , 5, 208ra145	17.5	368
251	A TCR binds to antagonist ligands with lower affinities and faster dissociation rates than to agonists. <i>Immunity</i> , 1996 , 5, 53-61	32.3	368
250	Genomic organization and sequence of T-cell receptor beta-chain constant- and joining-region genes. <i>Nature</i> , 1984 , 310, 387-91	50.4	366
249	TCR-peptide-MHC interactions in situ show accelerated kinetics and increased affinity. <i>Nature</i> , 2010 , 463, 963-7	50.4	362
248	Thymic selection determines gammadelta T cell effector fate: antigen-naive cells make interleukin-17 and antigen-experienced cells make interferon gamma. <i>Immunity</i> , 2008 , 29, 90-100	32.3	362
247	Deconstructing the peptide-MHC specificity of T cell recognition. <i>Cell</i> , 2014 , 157, 1073-87	56.2	345
246	T cells use two directionally distinct pathways for cytokine secretion. <i>Nature Immunology</i> , 2006 , 7, 247-55	59.1	344

245	Linking T-cell receptor sequence to functional phenotype at the single-cell level. <i>Nature Biotechnology</i> , 2014 , 32, 684-92	44.5	339
244	Continuous T cell receptor signaling required for synapse maintenance and full effector potential. <i>Nature Immunology</i> , 2003 , 4, 749-55	19.1	337
243	Differential clustering of CD4 and CD3zeta during T cell recognition. <i>Science</i> , 2000 , 289, 1349-52	33.3	335
242	Initiation of signal transduction through the T cell receptor requires the multivalent engagement of peptide/MHC ligands [corrected]. <i>Immunity</i> , 1998 , 9, 459-66	32.3	329
241	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, 18992-7	11.5	329
240	Virus-specific CD4(+) memory-phenotype T cells are abundant in unexposed adults. <i>Immunity</i> , 2013 , 38, 373-83	32.3	327
239	The adult T-cell receptor delta-chain is diverse and distinct from that of fetal thymocytes. <i>Nature</i> , 1988 , 331, 627-31	50.4	312
238	T-cell receptor delta gene rearrangements in early thymocytes. <i>Nature</i> , 1987 , 330, 722-7	50.4	292
237	Agonist/endogenous peptide-MHC heterodimers drive T cell activation and sensitivity. <i>Nature</i> , 2005 , 434, 238-43	50.4	287
236	Human immune system variation. <i>Nature Reviews Immunology</i> , 2017 , 17, 21-29	36.5	279
235	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, 1315-25	6.6	267
234	Lineage structure of the human antibody repertoire in response to influenza vaccination. <i>Science Translational Medicine</i> , 2013 , 5, 171ra19	17.5	265
233	A prescription for human immunology. <i>Immunity</i> , 2008 , 29, 835-8	32.3	265
232	Costimulation and endogenous MHC ligands contribute to T cell recognition. <i>Nature Immunology</i> , 2002 , 3, 42-7	19.1	263
231	Hypoimmunogenic derivatives of induced pluripotent stem cells evade immune rejection in fully immunocompetent allogeneic recipients. <i>Nature Biotechnology</i> , 2019 , 37, 252-258	44.5	255
230	Two-step binding mechanism for T-cell receptor recognition of peptide MHC. <i>Nature</i> , 2002 , 418, 552-6	50.4	243
229	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	17.5	233
228	A single peptide-major histocompatibility complex ligand triggers digital cytokine secretion in CD4(+) T cells. <i>Immunity</i> , 2013 , 39, 846-57	32.3	232

227	Clonally expanded CD8 T cells patrol the cerebrospinal fluid in Alzheimer's disease. <i>Nature</i> , 2020 , 577, 399-404	50.4	221
226	Combinatorial tetramer staining and mass cytometry analysis facilitate T-cell epitope mapping and characterization. <i>Nature Biotechnology</i> , 2013 , 31, 623-9	44.5	219
225	Clinical recovery from surgery correlates with single-cell immune signatures. <i>Science Translational Medicine</i> , 2014 , 6, 255ra131	17.5	215
224	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, 3109-19	15.9	213
223	Evidence that structural rearrangements and/or flexibility during TCR binding can contribute to T cell activation. <i>Molecular Cell</i> , 2003 , 12, 1367-78	17.6	211
222	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, 1162-9	19.1	208
221	Ligand-specific oligomerization of T-cell receptor molecules. <i>Nature</i> , 1997 , 387, 617-20	50.4	207
220	Cytomegalovirus infection enhances the immune response to influenza. <i>Science Translational Medicine</i> , 2015 , 7, 281ra43	17.5	205
219	Expression of specific inflammasome gene modules stratifies older individuals into two extreme clinical and immunological states. <i>Nature Medicine</i> , 2017 , 23, 174-184	50.5	204
218	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, 2702-7	11.5	204
217	CD4 enhances T cell sensitivity to antigen by coordinating Lck accumulation at the immunological synapse. <i>Nature Immunology</i> , 2004 , 5, 791-9	19.1	201
216	Induction of rapid T cell activation and tolerance by systemic presentation of an orally administered antigen. <i>Immunity</i> , 1998 , 8, 667-73	32.3	196
215	Human responses to influenza vaccination show seroconversion signatures and convergent antibody rearrangements. <i>Cell Host and Microbe</i> , 2014 , 16, 105-14	23.4	192
214	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	50.5	186
213	Multi-Omics Resolves a Sharp Disease-State Shift between Mild and Moderate COVID-19. <i>Cell</i> , 2020 , 183, 1479-1495.e20	56.2	186
212	Clonal Deletion Prunes but Does Not Eliminate Self-Specific CD8(+) T Lymphocytes. <i>Immunity</i> , 2015 , 42, 929-41	32.3	184
211	Spatial and temporal dynamics of T cell receptor signaling with a photoactivatable agonist. <i>Immunity</i> , 2007 , 27, 76-88	32.3	184
210	CD161 defines a transcriptional and functional phenotype across distinct human T cell lineages. <i>Cell Reports</i> , 2014 , 9, 1075-88	10.6	181

209	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	11.5	171
208	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, 202-7	11.5	171
207	High-Dimensional Phenotypic Mapping of Human Dendritic Cells Reveals Interindividual Variation and Tissue Specialization. <i>Immunity</i> , 2017 , 47, 1037-1050.e6	32.3	166
206	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	15.9	166
205	A clinically meaningful metric of immune age derived from high-dimensional longitudinal monitoring. <i>Nature Medicine</i> , 2019 , 25, 487-495	50.5	162
204	Antigen presentation profiling reveals recognition of lymphoma immunoglobulin neoantigens. <i>Nature</i> , 2017 , 543, 723-727	50.4	161
203	Single-cell analysis reveals T cell infiltration in old neurogenic niches. <i>Nature</i> , 2019 , 571, 205-210	50.4	161
202	"MIATA"-minimal information about T cell assays. <i>Immunity</i> , 2009 , 31, 527-8	32.3	161
201	A single class II myosin modulates T cell motility and stopping, but not synapse formation. <i>Nature Immunology</i> , 2004 , 5, 531-8	19.1	161
200	Antigen Identification for Orphan T Cell Receptors Expressed on Tumor-Infiltrating Lymphocytes. <i>Cell</i> , 2018 , 172, 549-563.e16	56.2	160
199	Single-Cell Chromatin Modification Profiling Reveals Increased Epigenetic Variations with Aging. <i>Cell</i> , 2018 , 173, 1385-1397.e14	56.2	156
198	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, 8676-81	11.5	155
197	Localization of a T-cell receptor diversity-region element. <i>Nature</i> , 1984 , 310, 421-3	50.4	150
196	Distinct TCR signaling pathways drive proliferation and cytokine production in T cells. <i>Nature Immunology</i> , 2013 , 14, 262-70	19.1	149
195	Shouts, whispers and the kiss of death: directional secretion in T cells. <i>Nature Immunology</i> , 2008 , 9, 1105-1111	19.1	145
194	Identification and sequence of a fourth human T cell antigen receptor chain. <i>Nature</i> , 1987 , 330, 569-72	50.4	145
193	Dynamics of p56lck translocation to the T cell immunological synapse following agonist and antagonist stimulation. <i>Immunity</i> , 2002 , 17, 809-22	32.3	142
192	Isolation of a Structural Mechanism for Uncoupling T Cell Receptor Signaling from Peptide-MHC Binding. <i>Cell</i> , 2018 , 174, 672-687.e27	56.2	141

191	Dietary gluten triggers concomitant activation of CD4+ and CD8+ T cells and T cells in celiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13073-8	11.5	139
190	Apoptosis and other immune biomarkers predict influenza vaccine responsiveness. <i>Molecular Systems Biology</i> , 2013 , 9, 659	12.2	138
189	Phenotypic differences between alpha beta versus beta T-cell receptor transgenic mice undergoing negative selection. <i>Nature</i> , 1989 , 340, 559-62	50.4	138
188	Variability and repertoire size of T-cell receptor V alpha gene segments. <i>Nature</i> , 1985 , 317, 430-4	50.4	136
187	Effects of aging, cytomegalovirus infection, and EBV infection on human B cell repertoires. <i>Journal of Immunology</i> , 2014 , 192, 603-11	5.3	135
186	Simultaneous detection of many T-cell specificities using combinatorial tetramer staining. <i>Nature Methods</i> , 2009 , 6, 497-9	21.6	134
185	T cells as a self-referential, sensory organ. <i>Annual Review of Immunology</i> , 2007 , 25, 681-95	34.7	128
184	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
183	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	5	126
182	Expression of genes of the T-cell antigen receptor complex in precursor thymocytes. <i>Nature</i> , 1985 , 315, 765-8	50.4	123
181	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
180	Identification of self through two-dimensional chemistry and synapses. <i>Annual Review of Cell and Developmental Biology</i> , 2001 , 17, 133-57	12.6	118
179	Systems immunology: just getting started. <i>Nature Immunology</i> , 2017 , 18, 725-732	19.1	117
178	A multi-cohort study of the immune factors associated with M. tuberculosis infection outcomes. <i>Nature</i> , 2018 , 560, 644-648	50.4	117
177	Predicting HLA class II antigen presentation through integrated deep learning. <i>Nature Biotechnology</i> , 2019 , 37, 1332-1343	44.5	112
176	Cardiovascular Complications in Patients with COVID-19: Consequences of Viral Toxicities and Host Immune Response. <i>Current Cardiology Reports</i> , 2020 , 22, 32	4.2	111
175	A model for harmonizing flow cytometry in clinical trials. <i>Nature Immunology</i> , 2010 , 11, 975-8	19.1	105
174	Progenitor identification and SARS-CoV-2 infection in human distal lung organoids. <i>Nature</i> , 2020 , 588, 670-675	50.4	103

173	Beyond model antigens: high-dimensional methods for the analysis of antigen-specific T cells. <i>Nature Biotechnology</i> , 2014 , 32, 149-57	44.5	102
172	Dynamics of cell surface molecules during T cell recognition. <i>Annual Review of Biochemistry</i> , 2003 , 72, 717-42	29.1	98
171	CD4 augments the response of a T cell to agonist but not to antagonist ligands. <i>Immunity</i> , 1997 , 7, 379-85	32.3	96
170	Adaptive Immune Receptor Repertoire Community recommendations for sharing immune-repertoire sequencing data. <i>Nature Immunology</i> , 2017 , 18, 1274-1278	19.1	95
169	Transcript-indexed ATAC-seq for precision immune profiling. <i>Nature Medicine</i> , 2018 , 24, 580-590	50.5	93
168	Analyzing the Mycobacterium tuberculosis immune response by T-cell receptor clustering with GLIPH2 and genome-wide antigen screening. <i>Nature Biotechnology</i> , 2020 , 38, 1194-1202	44.5	91
167	Inhibition of T cell receptor signaling by cholesterol sulfate, a naturally occurring derivative of membrane cholesterol. <i>Nature Immunology</i> , 2016 , 17, 844-50	19.1	91
166	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	7.6	90
165	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	11.5	90
164	Interrogating the repertoire: broadening the scope of peptide-MHC multimer analysis. <i>Nature Reviews Immunology</i> , 2011 , 11, 551-8	36.5	90
163	Individual heritable differences result in unique cell lymphocyte receptor repertoires of naïve and antigen-experienced cells. <i>Nature Communications</i> , 2016 , 7, 11112	17.4	87
162	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, 17099-104	11.5	86
161	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	11.5	85
160	New approaches to understanding the immune response to vaccination and infection. <i>Vaccine</i> , 2015 , 33, 5271-81	4.1	84
159	A murine T cell receptor gene complex: isolation, structure and rearrangement. <i>Immunological Reviews</i> , 1984 , 81, 235-58	11.3	82
158	Human B-cell isotype switching origins of IgE. <i>Journal of Allergy and Clinical Immunology</i> , 2016 , 137, 579-586.e781	18.6	81
157	Autologous iPSC-Based Vaccines Elicit Anti-tumor Responses In Vivo. <i>Cell Stem Cell</i> , 2018 , 22, 501-513.e78	18.8	78
156	Leveraging heterogeneity across multiple datasets increases cell-mixture deconvolution accuracy and reduces biological and technical biases. <i>Nature Communications</i> , 2018 , 9, 4735	17.4	77

155	T-cell receptor ligation induces distinct signaling pathways in naive vs. antigen-experienced T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1549-54	11.5	75
154	Distinct phenotype of CD4 T cells driving celiac disease identified in multiple autoimmune conditions. <i>Nature Medicine</i> , 2019 , 25, 734-737	50.5	74
153	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	10.6	73
152	Marked differences in human melanoma antigen-specific T cell responsiveness after vaccination using a functional microarray. <i>PLoS Medicine</i> , 2005 , 2, e265	11.6	71
151	Lineage tracing of human B cells reveals the in vivo landscape of human antibody class switching. <i>ELife</i> , 2016 , 5,	8.9	71
150	Opposing T cell responses in experimental autoimmune encephalomyelitis. <i>Nature</i> , 2019 , 572, 481-487	50.4	70
149	A kinetic window constricts the T cell receptor repertoire in the thymus. <i>Immunity</i> , 2001 , 14, 243-52	32.3	70
148	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	11.5	69
147	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	17.5	69
146	Comprehensive T cell repertoire characterization of non-small cell lung cancer. <i>Nature Communications</i> , 2020 , 11, 603	17.4	67
145	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. <i>Nature</i> , 2021 , 596, 410-416	50.4	67
144	Multicohort analysis reveals baseline transcriptional predictors of influenza vaccination responses. <i>Science Immunology</i> , 2017 , 2,	28	66
143	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	11.5	65
142	Multiple early factors anticipate post-acute COVID-19 sequelae.. <i>Cell</i> , 2022 , 185, 881-895.e20	56.2	64
141	Evidence for a functional sidedness to the alphabetaTCR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5094-9	11.5	63
140	Emergent high fatality lung disease in systemic juvenile arthritis. <i>Annals of the Rheumatic Diseases</i> , 2019 , 78, 1722-1731	2.4	61
139	A Macrophage Colony-Stimulating-Factor-Producing $\gamma\delta$ T Cell Subset Prevents Malarial Parasitemic Recurrence. <i>Immunity</i> , 2018 , 48, 350-363.e7	32.3	60
138	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	11.5	60

137	Isolation of a cDNA clone corresponding to an X-linked gene family (XLR) closely linked to the murine immunodeficiency disorder xid. <i>Nature</i> , 1985 , 314, 369-72	50.4	58
136	Single-cell systems-level analysis of human Toll-like receptor activation defines a chemokine signature in patients with systemic lupus erythematosus. <i>Journal of Allergy and Clinical Immunology</i> , 2015 , 136, 1326-36	11.5	57
135	IgH sequences in common variable immune deficiency reveal altered B cell development and selection. <i>Science Translational Medicine</i> , 2015 , 7, 302ra135	17.5	56
134	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, 14506-11	11.5	55
133	Global Analysis of O-GlcNAc Glycoproteins in Activated Human T Cells. <i>Journal of Immunology</i> , 2016 , 197, 3086-3098	5.3	55
132	How the immune system talks to itself: the varied role of synapses. <i>Immunological Reviews</i> , 2013 , 251, 65-79	11.3	54
131	The science and medicine of human immunology. <i>Science</i> , 2020 , 369,	33.3	54
130	TCR Signaling Emerges from the Sum of Many Parts. <i>Frontiers in Immunology</i> , 2012 , 3, 159	8.4	53
129	The evolutionary and structural logic of antigen receptor diversity. <i>Seminars in Immunology</i> , 2004 , 16, 239-43	10.7	53
128	Computational resources for high-dimensional immune analysis from the Human Immunology Project Consortium. <i>Nature Biotechnology</i> , 2014 , 32, 146-8	44.5	52
127	The coreceptor CD4 is expressed in distinct nanoclusters and does not colocalize with T-cell receptor and active protein tyrosine kinase p56lck. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1604-13	11.5	51
126	Rebooting Human Immunology. <i>Annual Review of Immunology</i> , 2018 , 36, 843-864	34.7	50
125	Structural basis of specificity and cross-reactivity in T cell receptors specific for cytochrome c-I-E(k). <i>Journal of Immunology</i> , 2011 , 186, 5823-32	5.3	50
124	Expression of an X-linked gene family (XLR) in late-stage B cells and its alteration by the xid mutation. <i>Nature</i> , 1985 , 314, 372-4	50.4	50
123	Distinct molecular mechanisms account for the specificity of two different T-cell receptors. <i>Biochemistry</i> , 2003 , 42, 4709-16	3.2	48
122	Direct functional analysis of epitope-specific CD8+ T cells in peripheral blood. <i>Viral Immunology</i> , 2001 , 14, 59-69	1.7	47
121	Kinetics of peptide binding to the class II MHC protein I-Ek. <i>Biochemistry</i> , 2000 , 39, 1048-58	3.2	47
120	A new trigger for T cells. <i>Cell</i> , 2002 , 110, 285-7	56.2	46

119	Advanced model systems and tools for basic and translational human immunology. <i>Genome Medicine</i> , 2018 , 10, 73	14.4	46
118	Enumeration and characterization of memory cells in the TH compartment. <i>Immunological Reviews</i> , 1996 , 150, 5-21	11.3	45
117	Modeling human adaptive immune responses with tonsil organoids. <i>Nature Medicine</i> , 2021 , 27, 125-135	50.5	45
116	Defective T Memory Cell Differentiation after Varicella Zoster Vaccination in Older Individuals. <i>PLoS Pathogens</i> , 2016 , 12, e1005892	7.6	44
115	Plasmablast-derived polyclonal antibody response after influenza vaccination. <i>Journal of Immunological Methods</i> , 2011 , 365, 67-75	2.5	43
114	Peptide-MHC heterodimers show that thymic positive selection requires a more restricted set of self-peptides than negative selection. <i>Journal of Experimental Medicine</i> , 2010 , 207, 1223-34	16.6	43
113	Low ligand requirement for deletion and lack of synapses in positive selection enforce the gauntlet of thymic T cell maturation. <i>Immunity</i> , 2008 , 29, 734-45	32.3	42
112	T cell receptor antagonism interferes with MHC clustering and integrin patterning during immunological synapse formation. <i>Journal of Cell Biology</i> , 2004 , 166, 579-90	7.3	41
111	Photocrosslinkable pMHC monomers stain T cells specifically and cause ligand-bound TCRs to be preferentially transported to the cSMAC. <i>Nature Immunology</i> , 2012 , 13, 674-80	19.1	39
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109	An Integrated Multi-omic Single-Cell Atlas of Human B Cell Identity. <i>Immunity</i> , 2020 , 53, 217-232.e5	32.3	38
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