

Gordon J Freeman

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.

420
papers

87,822
citations

150
h-index

293
g-index

458
ext. papers

102,138
ext. citations

13
avg, IF

7.86
L-index

#	Paper	IF	Citations
420	PD-1 and its ligands in tolerance and immunity. <i>Annual Review of Immunology</i> , 2008 , 26, 677-704	34.7	3557
419	Engagement of the PD-1 immunoinhibitory receptor by a novel B7 family member leads to negative regulation of lymphocyte activation. <i>Journal of Experimental Medicine</i> , 2000 , 192, 1027-34	16.6	3501
418	Restoring function in exhausted CD8 T cells during chronic viral infection. <i>Nature</i> , 2006 , 439, 682-7	50.4	2903
417	PD-1 blockade with nivolumab in relapsed or refractory Hodgkin's lymphoma. <i>New England Journal of Medicine</i> , 2015 , 372, 311-9	59.2	2513
416	PD-L2 is a second ligand for PD-1 and inhibits T cell activation. <i>Nature Immunology</i> , 2001 , 2, 261-8	19.1	2040
415	PD-1 expression on HIV-specific T cells is associated with T-cell exhaustion and disease progression. <i>Nature</i> , 2006 , 443, 350-4	50.4	2001
414	The B7 family revisited. <i>Annual Review of Immunology</i> , 2005 , 23, 515-48	34.7	1861
413	CTLA-4 can function as a negative regulator of T cell activation. <i>Immunity</i> , 1994 , 1, 405-13	32.3	1697
412	CD4 ⁺ CD25 ^{high} regulatory cells in human peripheral blood. <i>Journal of Immunology</i> , 2001 , 167, 1245-53	5.3	1517
411	Coregulation of CD8 ⁺ T cell exhaustion by multiple inhibitory receptors during chronic viral infection. <i>Nature Immunology</i> , 2009 , 10, 29-37	19.1	1403
410	PD-L1 regulates the development, maintenance, and function of induced regulatory T cells. <i>Journal of Experimental Medicine</i> , 2009 , 206, 3015-29	16.6	1384
409	Checkpoint blockade cancer immunotherapy targets tumour-specific mutant antigens. <i>Nature</i> , 2014 , 515, 577-81	50.4	1331
408	The B7-CD28 superfamily. <i>Nature Reviews Immunology</i> , 2002 , 2, 116-26	36.5	1314
407	Programmed death-1 ligand 1 interacts specifically with the B7-1 costimulatory molecule to inhibit T cell responses. <i>Immunity</i> , 2007 , 27, 111-22	32.3	1206
406	Th1-specific cell surface protein Tim-3 regulates macrophage activation and severity of an autoimmune disease. <i>Nature</i> , 2002 , 415, 536-41	50.4	1120
405	The function of programmed cell death 1 and its ligands in regulating autoimmunity and infection. <i>Nature Immunology</i> , 2007 , 8, 239-45	19.1	1048
404	Signatures of T cell dysfunction and exclusion predict cancer immunotherapy response. <i>Nature Medicine</i> , 2018 , 24, 1550-1558	50.5	881

403	Tissue expression of PD-L1 mediates peripheral T cell tolerance. <i>Journal of Experimental Medicine</i> , 2006 , 203, 883-95	16.6	875
402	Adaptive resistance to therapeutic PD-1 blockade is associated with upregulation of alternative immune checkpoints. <i>Nature Communications</i> , 2016 , 7, 10501	17.4	846
401	Defining CD8+ T cells that provide the proliferative burst after PD-1 therapy. <i>Nature</i> , 2016 , 537, 417-421	50.4	834
400	Activation of the PD-1 pathway contributes to immune escape in EGFR-driven lung tumors. <i>Cancer Discovery</i> , 2013 , 3, 1355-63	24.4	831
399	Combination cancer immunotherapy and new immunomodulatory targets. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 561-84	64.1	806
398	Cloning of B7-2: a CTLA-4 counter-receptor that costimulates human T cell proliferation. <i>Science</i> , 1993 , 262, 909-11	33.3	793
397	Blockade of programmed death-1 ligands on dendritic cells enhances T cell activation and cytokine production. <i>Journal of Immunology</i> , 2003 , 170, 1257-66	5.3	731
396	Nivolumab in Patients With Relapsed or Refractory Hematologic Malignancy: Preliminary Results of a Phase Ib Study. <i>Journal of Clinical Oncology</i> , 2016 , 34, 2698-704	2.2	677
395	Antigen-specific regulatory T cells develop via the ICOS-ICOS-ligand pathway and inhibit allergen-induced airway hyperreactivity. <i>Nature Medicine</i> , 2002 , 8, 1024-32	50.5	672
394	PD-L1 expression is characteristic of a subset of aggressive B-cell lymphomas and virus-associated malignancies. <i>Clinical Cancer Research</i> , 2013 , 19, 3462-73	12.9	601
393	Enhancing SIV-specific immunity in vivo by PD-1 blockade. <i>Nature</i> , 2009 , 458, 206-10	50.4	601
392	Immunologic purging of marrow assessed by PCR before autologous bone marrow transplantation for B-cell lymphoma. <i>New England Journal of Medicine</i> , 1991 , 325, 1525-33	59.2	566
391	Cooperation of Tim-3 and PD-1 in CD8 T-cell exhaustion during chronic viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14733-8	11.5	555
390	PD-1 alters T-cell metabolic reprogramming by inhibiting glycolysis and promoting lipolysis and fatty acid oxidation. <i>Nature Communications</i> , 2015 , 6, 6692	17.4	554
389	ICOS is critical for CD40-mediated antibody class switching. <i>Nature</i> , 2001 , 409, 102-5	50.4	550
388	PD-1:PD-L inhibitory pathway affects both CD4(+) and CD8(+) T cells and is overcome by IL-2. <i>European Journal of Immunology</i> , 2002 , 32, 634-43	6.1	523
387	Immunogenic Chemotherapy Sensitizes Tumors to Checkpoint Blockade Therapy. <i>Immunity</i> , 2016 , 44, 343-54	32.3	518
386	Coinhibitory Pathways in Immunotherapy for Cancer. <i>Annual Review of Immunology</i> , 2016 , 34, 539-73	34.7	507

385	B7-1 and B7-2 do not deliver identical costimulatory signals, since B7-2 but not B7-1 preferentially costimulates the initial production of IL-4. <i>Immunity</i> , 1995 , 2, 523-32	32.3	493
384	Rescue of exhausted CD8 T cells by PD-1-targeted therapies is CD28-dependent. <i>Science</i> , 2017 , 355, 1423-1427	35.1	486
383	Interaction of Tim-3 and Tim-3 ligand regulates T helper type 1 responses and induction of peripheral tolerance. <i>Nature Immunology</i> , 2003 , 4, 1102-10	19.1	486
382	Dual blockade of PD-1 and CTLA-4 combined with tumor vaccine effectively restores T-cell rejection function in tumors. <i>Cancer Research</i> , 2013 , 73, 3591-603	10.1	475
381	PD-L1-deficient mice show that PD-L1 on T cells, antigen-presenting cells, and host tissues negatively regulates T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10691-6	11.5	474
380	PD-L1 and PD-L2 Genetic Alterations Define Classical Hodgkin Lymphoma and Predict Outcome. <i>Journal of Clinical Oncology</i> , 2016 , 34, 2690-7	2.2	472
379	Human T-cell clonal anergy is induced by antigen presentation in the absence of B7 costimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 6586-90	11.5	468
378	TIM-1 and TIM-4 glycoproteins bind phosphatidylserine and mediate uptake of apoptotic cells. <i>Immunity</i> , 2007 , 27, 927-40	32.3	461
377	Regulation of PD-1, PD-L1, and PD-L2 expression during normal and autoimmune responses. <i>European Journal of Immunology</i> , 2003 , 33, 2706-16	6.1	456
376	<i>Fusobacterium nucleatum</i> in colorectal carcinoma tissue and patient prognosis. <i>Gut</i> , 2016 , 65, 1973-1980	9.2	454
375	B7-1 and B7-2 have overlapping, critical roles in immunoglobulin class switching and germinal center formation. <i>Immunity</i> , 1997 , 6, 303-13	32.3	438
374	TIM genes: a family of cell surface phosphatidylserine receptors that regulate innate and adaptive immunity. <i>Immunological Reviews</i> , 2010 , 235, 172-89	11.3	422
373	Upregulation of CTLA-4 by HIV-specific CD4+ T cells correlates with disease progression and defines a reversible immune dysfunction. <i>Nature Immunology</i> , 2007 , 8, 1246-54	19.1	411
372	Cyclin D-CDK4 kinase destabilizes PD-L1 via cullin 3-SPOP to control cancer immune surveillance. <i>Nature</i> , 2018 , 553, 91-95	50.4	408
371	Identification of Tapr (an airway hyperreactivity regulatory locus) and the linked Tim gene family. <i>Nature Immunology</i> , 2001 , 2, 1109-16	19.1	404
370	Maintenance of human T cell anergy: blocking of IL-2 gene transcription by activated Rap1. <i>Science</i> , 1997 , 278, 124-8	33.3	389
369	Liver-infiltrating lymphocytes in chronic human hepatitis C virus infection display an exhausted phenotype with high levels of PD-1 and low levels of CD127 expression. <i>Journal of Virology</i> , 2007 , 81, 2545-53	6.6	386
368	PD-L1 on tumor cells is sufficient for immune evasion in immunogenic tumors and inhibits CD8 T cell cytotoxicity. <i>Journal of Experimental Medicine</i> , 2017 , 214, 895-904	16.6	382

367	B-cell surface antigen B7 provides a costimulatory signal that induces T cells to proliferate and secrete interleukin 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 6575-9	11.5	375
366	CD4+CD25+ T regulatory cells dependent on ICOS promote regulation of effector cells in the prediabetic lesion. <i>Journal of Experimental Medicine</i> , 2004 , 199, 1479-89	16.6	365
365	Mouse inducible costimulatory molecule (ICOS) expression is enhanced by CD28 costimulation and regulates differentiation of CD4+ T cells. <i>Journal of Immunology</i> , 2000 , 165, 5035-40	5.3	365
364	The Next Immune-Checkpoint Inhibitors: PD-1/PD-L1 Blockade in Melanoma. <i>Clinical Therapeutics</i> , 2015 , 37, 764-82	3.5	360
363	Successful Anti-PD-1 Cancer Immunotherapy Requires T Cell-Dendritic Cell Crosstalk Involving the Cytokines IFN- γ and IL-12. <i>Immunity</i> , 2018 , 49, 1148-1161.e7	32.3	352
362	Endothelial expression of PD-L1 and PD-L2 down-regulates CD8+ T cell activation and cytotoxicity. <i>European Journal of Immunology</i> , 2003 , 33, 3117-26	6.1	350
361	Selective expansion of a subset of exhausted CD8 T cells by alphaPD-L1 blockade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15016-21	11.5	349
360	Transcriptional analysis of HIV-specific CD8+ T cells shows that PD-1 inhibits T cell function by upregulating BATF. <i>Nature Medicine</i> , 2010 , 16, 1147-51	50.5	344
359	Fusobacterium nucleatum and T Cells in Colorectal Carcinoma. <i>JAMA Oncology</i> , 2015 , 1, 653-61	13.4	336
358	Reinvigorating exhausted HIV-specific T cells via PD-1-PD-1 ligand blockade. <i>Journal of Experimental Medicine</i> , 2006 , 203, 2223-7	16.6	333
357	RIAM, an Ena/VASP and Profilin ligand, interacts with Rap1-GTP and mediates Rap1-induced adhesion. <i>Developmental Cell</i> , 2004 , 7, 585-95	10.2	332
356	In vivo imaging reveals a tumor-associated macrophage-mediated resistance pathway in anti-PD-1 therapy. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	331
355	The TIM gene family: emerging roles in immunity and disease. <i>Nature Reviews Immunology</i> , 2003 , 3, 454-62	6.5	326
354	Uncovering of functional alternative CTLA-4 counter-receptor in B7-deficient mice. <i>Science</i> , 1993 , 262, 907-9	33.3	326
353	Targetable genetic features of primary testicular and primary central nervous system lymphomas. <i>Blood</i> , 2016 , 127, 869-81	2.2	317
352	Coinhibitory Pathways in the B7-CD28 Ligand-Receptor Family. <i>Immunity</i> , 2016 , 44, 955-72	32.3	315
351	Murine B7-2, an alternative CTLA4 counter-receptor that costimulates T cell proliferation and interleukin 2 production. <i>Journal of Experimental Medicine</i> , 1993 , 178, 2185-92	16.6	308
350	CDK4/6 Inhibition Augments Antitumor Immunity by Enhancing T-cell Activation. <i>Cancer Discovery</i> , 2018 , 8, 216-233	24.4	308

349	Structure, expression, and T cell costimulatory activity of the murine homologue of the human B lymphocyte activation antigen B7. <i>Journal of Experimental Medicine</i> , 1991 , 174, 625-31	16.6	298
348	STK11/LKB1 Deficiency Promotes Neutrophil Recruitment and Proinflammatory Cytokine Production to Suppress T-cell Activity in the Lung Tumor Microenvironment. <i>Cancer Research</i> , 2016 , 76, 999-1008	10.1	297
347	CTLA4 mediates antigen-specific apoptosis of human T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 811-5	11.5	290
346	Loss of PTEN Is Associated with Resistance to Anti-PD-1 Checkpoint Blockade Therapy in Metastatic Uterine Leiomyosarcoma. <i>Immunity</i> , 2017 , 46, 197-204	32.3	288
345	Inadequate T follicular cell help impairs B cell immunity during HIV infection. <i>Nature Medicine</i> , 2013 , 19, 494-9	50.5	286
344	Prevention of T cell anergy by signaling through the gamma c chain of the IL-2 receptor. <i>Science</i> , 1994 , 266, 1039-42	33.3	286
343	Programmed death-1 (PD-1) is a marker of germinal center-associated T cells and angioimmunoblastic T-cell lymphoma. <i>American Journal of Surgical Pathology</i> , 2006 , 30, 802-10	6.7	285
342	Selective induction of B7/BB-1 on interferon-gamma stimulated monocytes: a potential mechanism for amplification of T cell activation through the CD28 pathway. <i>Cellular Immunology</i> , 1991 , 137, 429-37	4.4	283
341	Structural and functional studies of the early T lymphocyte activation 1 (Eta-1) gene. Definition of a novel T cell-dependent response associated with genetic resistance to bacterial infection. <i>Journal of Experimental Medicine</i> , 1989 , 170, 145-61	16.6	274
340	Loss of Lkb1 and Pten leads to lung squamous cell carcinoma with elevated PD-L1 expression. <i>Cancer Cell</i> , 2014 , 25, 590-604	24.3	273
339	Synergistic reversal of intrahepatic HCV-specific CD8 T cell exhaustion by combined PD-1/CTLA-4 blockade. <i>PLoS Pathogens</i> , 2009 , 5, e1000313	7.6	273
338	Ox40-ligand has a critical costimulatory role in dendritic cell:T cell interactions. <i>Immunity</i> , 1999 , 11, 689-98	32.3	266
337	LSD1 Ablation Stimulates Anti-tumor Immunity and Enables Checkpoint Blockade. <i>Cell</i> , 2018 , 174, 549-563.e19	67.1	264
336	Induction of T helper type 1-like regulatory cells that express Foxp3 and protect against airway hyper-reactivity. <i>Nature Immunology</i> , 2004 , 5, 1149-56	19.1	262
335	Signalling through the MHC class II cytoplasmic domain is required for antigen presentation and induces B7 expression. <i>Nature</i> , 1992 , 360, 266-8	50.4	258
334	Immune evasion mediated by PD-L1 on glioblastoma-derived extracellular vesicles. <i>Science Advances</i> , 2018 , 4, eaar2766	14.3	254
333	Enhancing CD8 T Cell Fatty Acid Catabolism within a Metabolically Challenging Tumor Microenvironment Increases the Efficacy of Melanoma Immunotherapy. <i>Cancer Cell</i> , 2017 , 32, 377-391.e9	34.3	253
332	TIM-1 induces T cell activation and inhibits the development of peripheral tolerance. <i>Nature Immunology</i> , 2005 , 6, 447-54	19.1	252

331	Expression cloning of a cDNA for human leukotriene C4 synthase, an integral membrane protein conjugating reduced glutathione to leukotriene A4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 7663-7	11.5	250
330	Orchestration and Prognostic Significance of Immune Checkpoints in the Microenvironment of Primary and Metastatic Renal Cell Cancer. <i>Clinical Cancer Research</i> , 2015 , 21, 3031-40	12.9	249
329	The microsatellite instable subset of colorectal cancer is a particularly good candidate for checkpoint blockade immunotherapy. <i>Cancer Discovery</i> , 2015 , 5, 16-8	24.4	247
328	CD160 inhibits activation of human CD4+ T cells through interaction with herpesvirus entry mediator. <i>Nature Immunology</i> , 2008 , 9, 176-85	19.1	241
327	T cell-targeting nanoparticles focus delivery of immunotherapy to improve antitumor immunity. <i>Nature Communications</i> , 2017 , 8, 1747	17.4	240
326	Constitutive expression of B7 restores immunogenicity of tumor cells expressing truncated major histocompatibility complex class II molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 5687-90	11.5	238
325	Glioblastoma Eradication Following Immune Checkpoint Blockade in an Orthotopic, Immunocompetent Model. <i>Cancer Immunology Research</i> , 2016 , 4, 124-35	12.5	236
324	Profiling of PD-1 Blockade Using Organotypic Tumor Spheroids. <i>Cancer Discovery</i> , 2018 , 8, 196-215	24.4	228
323	Functional restoration of HCV-specific CD8 T cells by PD-1 blockade is defined by PD-1 expression and compartmentalization. <i>Gastroenterology</i> , 2008 , 134, 1927-37, 1937.e1-2	13.3	226
322	TIM-family proteins promote infection of multiple enveloped viruses through virion-associated phosphatidylserine. <i>PLoS Pathogens</i> , 2013 , 9, e1003232	7.6	223
321	Tob is a negative regulator of activation that is expressed in anergic and quiescent T cells. <i>Nature Immunology</i> , 2001 , 2, 1174-82	19.1	221
320	Human CD100, a novel leukocyte semaphorin that promotes B-cell aggregation and differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 11780-5	11.5	219
319	Induction of robust cellular and humoral virus-specific adaptive immune responses in human immunodeficiency virus-infected humanized BLT mice. <i>Journal of Virology</i> , 2009 , 83, 7305-21	6.6	216
318	Differential expression of PD-L1 and PD-L2, ligands for an inhibitory receptor PD-1, in the cells of lymphohematopoietic tissues. <i>Immunology Letters</i> , 2002 , 84, 57-62	4.1	216
317	T cell/transmembrane, Ig, and mucin-3 allelic variants differentially recognize phosphatidylserine and mediate phagocytosis of apoptotic cells. <i>Journal of Immunology</i> , 2010 , 184, 1918-30	5.3	213
316	Therapeutic PD-1 pathway blockade augments with other modalities of immunotherapy T-cell function to prevent immune decline in ovarian cancer. <i>Cancer Research</i> , 2013 , 73, 6900-12	10.1	207
315	Isolated human follicular dendritic cells display a unique antigenic phenotype. <i>Journal of Experimental Medicine</i> , 1989 , 169, 2043-58	16.6	207
314	Intratumoral Activity of the CXCR3 Chemokine System Is Required for the Efficacy of Anti-PD-1 Therapy. <i>Immunity</i> , 2019 , 50, 1498-1512.e5	32.3	206

313	Differential Expression of PD-L1 between Primary and Metastatic Sites in Clear-Cell Renal Cell Carcinoma. <i>Cancer Immunology Research</i> , 2015 , 3, 1158-64	12.5	205
312	p27kip1 functions as an energy factor inhibiting interleukin 2 transcription and clonal expansion of alloreactive human and mouse helper T lymphocytes. <i>Nature Medicine</i> , 2000 , 6, 290-7	50.5	205
311	PARP Inhibition Elicits STING-Dependent Antitumor Immunity in Brca1-Deficient Ovarian Cancer. <i>Cell Reports</i> , 2018 , 25, 2972-2980.e5	10.6	205
310	The CD160, BTLA, LIGHT/HVEM pathway: a bidirectional switch regulating T-cell activation. <i>Immunological Reviews</i> , 2009 , 229, 244-58	11.3	203
309	Association of PD-L1 expression on tumor-infiltrating mononuclear cells and overall survival in patients with urothelial carcinoma. <i>Annals of Oncology</i> , 2015 , 26, 812-817	10.3	202
308	PD-L1 expression in nonclear-cell renal cell carcinoma. <i>Annals of Oncology</i> , 2014 , 25, 2178-2184	10.3	202
307	ICOS:ICOS-ligand interaction is required for type 2 innate lymphoid cell function, homeostasis, and induction of airway hyperreactivity. <i>Immunity</i> , 2015 , 42, 538-51	32.3	200
306	Soluble PD-L1 as a Biomarker in Malignant Melanoma Treated with Checkpoint Blockade. <i>Cancer Immunology Research</i> , 2017 , 5, 480-492	12.5	196
305	PD-1:PD-L1 interactions contribute to the functional suppression of virus-specific CD8+ T lymphocytes in the liver. <i>Journal of Immunology</i> , 2007 , 178, 2714-20	5.3	196
304	Identification of the Cell-Intrinsic and -Extrinsic Pathways Downstream of EGFR and IFN γ that Induce PD-L1 Expression in Head and Neck Cancer. <i>Cancer Research</i> , 2016 , 76, 1031-43	10.1	193
303	Strength of PD-1 signaling differentially affects T-cell effector functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2480-9	11.5	192
302	Abundant PD-L1 expression in Epstein-Barr Virus-infected gastric cancers. <i>Oncotarget</i> , 2016 , 7, 32925-32933	3.3	191
301	Response to BRAF inhibition in melanoma is enhanced when combined with immune checkpoint blockade. <i>Cancer Immunology Research</i> , 2014 , 2, 643-54	12.5	190
300	In-fusion assembly: seamless engineering of multidomain fusion proteins, modular vectors, and mutations. <i>BioTechniques</i> , 2007 , 43, 354-9	2.5	188
299	B7 but not intercellular adhesion molecule-1 costimulation prevents the induction of human alloantigen-specific tolerance. <i>Journal of Experimental Medicine</i> , 1993 , 178, 1753-63	16.6	187
298	Activated human B lymphocytes express three CTLA-4 counterreceptors that costimulate T-cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 11059-63	11.5	187
297	Expression and function of the murine B7 antigen, the major costimulatory molecule expressed by peritoneal exudate cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 4210-4	11.5	187
296	Labeling Extracellular Vesicles for Nanoscale Flow Cytometry. <i>Scientific Reports</i> , 2017 , 7, 1878	4.9	185

295	Chimeric antigen receptor T cells secreting anti-PD-L1 antibodies more effectively regress renal cell carcinoma in a humanized mouse model. <i>Oncotarget</i> , 2016 , 7, 34341-55	3.3	185
294	Interferon- γ -induced activation of JAK1 and JAK2 suppresses tumor cell susceptibility to NK cells through upregulation of PD-L1 expression. <i>Onc Immunology</i> , 2015 , 4, e1008824	7.2	184
293	Interaction of human PD-L1 and B7-1. <i>Molecular Immunology</i> , 2008 , 45, 3567-72	4.3	184
292	Enhancing therapeutic vaccination by blocking PD-1-mediated inhibitory signals during chronic infection. <i>Journal of Experimental Medicine</i> , 2008 , 205, 543-55	16.6	184
291	Viral targeting of fibroblastic reticular cells contributes to immunosuppression and persistence during chronic infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15430-5	11.5	184
290	Follicular lymphomas can be induced to present alloantigen efficiently: a conceptual model to improve their tumor immunogenicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 8200-4	11.5	183
289	Expression and Regulation of the PD-L1 Immunoinhibitory Molecule on Microvascular Endothelial Cells. <i>Microcirculation</i> , 2002 , 9, 133-145	2.9	183
288	RGMB is a novel binding partner for PD-L2 and its engagement with PD-L2 promotes respiratory tolerance. <i>Journal of Experimental Medicine</i> , 2014 , 211, 943-59	16.6	182
287	CD161 defines a transcriptional and functional phenotype across distinct human T cell lineages. <i>Cell Reports</i> , 2014 , 9, 1075-88	10.6	181
286	An autoimmune disease-associated CTLA-4 splice variant lacking the B7 binding domain signals negatively in T cells. <i>Immunity</i> , 2004 , 20, 563-75	32.3	180
285	PD-1 regulates self-reactive CD8+ T cell responses to antigen in lymph nodes and tissues. <i>Journal of Immunology</i> , 2007 , 179, 5064-70	5.3	179
284	Role of PD-1 during effector CD8 T cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4749-4754	11.5	178
283	Structures of T cell immunoglobulin mucin protein 4 show a metal-ion-dependent ligand binding site where phosphatidylserine binds. <i>Immunity</i> , 2007 , 27, 941-51	32.3	176
282	Topological analysis reveals a PD-L1-associated microenvironmental niche for Reed-Sternberg cells in Hodgkin lymphoma. <i>Blood</i> , 2017 , 130, 2420-2430	2.2	174
281	PD-L1 blockade synergizes with IL-2 therapy in reinvigorating exhausted T cells. <i>Journal of Clinical Investigation</i> , 2013 , 123, 2604-15	15.9	174
280	Phenotype, function, and gene expression profiles of programmed death-1(hi) CD8 T cells in healthy human adults. <i>Journal of Immunology</i> , 2011 , 186, 4200-12	5.3	168
279	The importance of exosomal PDL1 in tumour immune evasion. <i>Nature Reviews Immunology</i> , 2020 , 20, 209-215	36.5	165
278	Endothelial programmed death-1 ligand 1 (PD-L1) regulates CD8+ T-cell mediated injury in the heart. <i>Circulation</i> , 2007 , 116, 2062-71	16.7	164

277	High level of PD-1 expression on hepatitis C virus (HCV)-specific CD8+ and CD4+ T cells during acute HCV infection, irrespective of clinical outcome. <i>Journal of Virology</i> , 2008 , 82, 3154-60	6.6	159
276	Immunology: hepatitis A virus link to atopic disease. <i>Nature</i> , 2003 , 425, 576	50.4	157
275	Interplay of somatic alterations and immune infiltration modulates response to PD-1 blockade in advanced clear cell renal cell carcinoma. <i>Nature Medicine</i> , 2020 , 26, 909-918	50.5	155
274	Expression of PD-1 and Its Ligands, PD-L1 and PD-L2, in Smokers and Never Smokers with KRAS-Mutant Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2015 , 10, 1726-35	8.9	155
273	IL-10 and PD-L1 operate through distinct pathways to suppress T-cell activity during persistent viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20428-33	11.5	154
272	Interplay between regulatory T cells and PD-1 in modulating T cell exhaustion and viral control during chronic LCMV infection. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1905-18	16.6	151
271	Breast cancer-associated antigen, DF3/MUC1, induces apoptosis of activated human T cells. <i>Nature Medicine</i> , 1996 , 2, 1367-70	50.5	151
270	Proliferating Transitory T Cells with an Effector-like Transcriptional Signature Emerge from PD-1 Stem-like CD8 T Cells during Chronic Infection. <i>Immunity</i> , 2019 , 51, 1043-1058.e4	32.3	150
269	Expansion of autoreactive T cells in multiple sclerosis is independent of exogenous B7 costimulation. <i>Journal of Immunology</i> , 1998 , 160, 1532-8	5.3	149
268	Increased T follicular helper cells and germinal center B cells are required for cGVHD and bronchiolitis obliterans. <i>Blood</i> , 2014 , 123, 3988-98	2.2	144
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