Omid Akbari

List of Publications by Year
in descending order

81 papers	6,852 citations	101543 36 h-index	62596 80 g-index
83 all docs	83 docs citations	83 times ranked	7202 citing authors

#	Article	IF	Citations
1	Pulmonary dendritic cells producing IL-10 mediate tolerance induced by respiratory exposure to antigen. Nature Immunology, 2001, 2, 725-731.	14.5	1,145
2	Antigen-specific regulatory T cells develop via the ICOSâ€“ICOS-ligand pathway and inhibit allergen-induced airway hyperreactivity. Nature Medicine, 2002, 8, 1024-1032.	30.7	728
3	Essential role of NKT cells producing IL-4 and IL-13 in the development of allergen-induced airway hyperreactivity. Nature Medicine, 2003, 9, 582-588.	30.7	639
4	Identification of Tapr (an airway hyperreactivity regulatory locus) and the linked Tim gene family. Nature Immunology, 2001, 2, 1109-1116.	14.5	460
5	Induction of T helper type 1â€“like regulatory cells that express Foxp3 and protect against airway hyper-reactivity. Nature Immunology, 2004, 5, 1149-1156.	14.5	287
6	ICOS:ICOS-Ligand Interaction Is Required for Type 2 Innate Lymphoid Cell Function, Homeostasis, and Induction of Airway Hyperreactivity. Immunity, 2015, 42, 538-551.	14.3	254
7	Glycolipid activation of invariant T cell receptor ⁺ NK T cells is sufficient to induce airway hyperreactivity independent of conventional CD4 ⁺ T cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2782-2787.	7.1	206
8	CD4 T-helper cells engineered to produce IL-10 prevent allergen-induced airway hyperreactivity and inflammation. Journal of Allergy and Clinical Immunology, 2002, 110, 460-468.	2.9	202
9	Role of regulatory T cells in allergy and asthma. Current Opinion in Immunology, 2003, 15, 627-633.	5.5	176
10	PD-L1 and PD-L2 modulate airway inflammation and iNKT-cell-dependent airway hyperreactivity in opposing directions. Mucosal Immunology, 2010, 3, 81-91.	6.0	157
11	Type 2 innate lymphoid cell suppression by regulatory TÂcells attenuates airway hyperreactivity and requires inducible T-cell costimulatorâ€“inducible T-cell costimulator ligand interaction. Journal of Allergy and Clinical Immunology, 2017, 139, 1468-1477.e2.	2.9	153
12	Transcriptional regulation of autophagy-lysosomal function in BRAF-driven melanoma progression and chemoresistance. Nature Communications, 2019, 10, 1693.	12.8	119
13	Genome-wide analysis highlights contribution of immune system pathways to the genetic architecture of asthma. Nature Communications, 2020, 11, 1776.	12.8	119
14	Nicotinic acetylcholine receptor agonist attenuates ILC2-dependent airway hyperreactivity. Nature Communications, 2016, 7, 13202.	12.8	108
15	Group 2 innate lymphoid cells are elevated and activated in chronic rhinosinusitis with nasal polyps. Immunity, Inflammation and Disease, 2017, 5, 233-243.	2.7	105
16	Role of PD-L1 and PD-L2 in allergic diseases and asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2011, 66, 155-162.	5.7	103
17	PD-1 pathway regulates ILC2 metabolism and PD-1 agonist treatment ameliorates airway hyperreactivity. Nature Communications, 2020, 11, 3998.	12.8	101
18	Dietary Fiber-Induced Microbial Short Chain Fatty Acids Suppress ILC2-Dependent Airway Inflammation. Frontiers in Immunology, 2019, 10, 2051.	4.8	90

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19	Programmed cell death ligand 2 regulates TH9 differentiation and induction of chronic airway hyperreactivity. Journal of Allergy and Clinical Immunology, 2013, 131, 1048-1057.e2.	2.9	85
20	Regulatory T cells and type 2 innate lymphoid cellâ€dependent asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2017, 72, 1148-1155.	5.7	84
21	ICOS/ICOSL Interaction Is Required for CD4+ Invariant NKT Cell Function and Homeostatic Survival. Journal of Immunology, 2008, 180, 5448-5456.	0.8	79
22	Natural killer T cells in the lungs of patients with asthma. Journal of Allergy and Clinical Immunology, 2009, 123, 1181-1185.e1.	2.9	72
23	CD8Î±+Î²â^' and CD8Î±+Î²+ plasmacytoid dendritic cells induce Foxp3+ regulatory T cells and prevent the induction of airway hyper-reactivity. Mucosal Immunology, 2012, 5, 432-443.	6.0	69
24	Lack of autophagy induces steroid-resistant airway inflammation. Journal of Allergy and Clinical Immunology, 2016, 137, 1382-1389.e9.	2.9	63
25	Activated plasmacytoid dendritic cells regulate type 2 innate lymphoid cellâ€“mediated airway hyperreactivity. Journal of Allergy and Clinical Immunology, 2018, 141, 893-905.e6.	2.9	61
26	Costimulation of type-2 innate lymphoid cells by GITR promotes effector function and ameliorates type 2 diabetes. Nature Communications, 2019, 10, 713.	12.8	58
27	IÎºB Kinase Îµ Is an NFATc1 Kinase that Inhibits T Cell Immune Response. Cell Reports, 2016, 16, 405-418.	6.4	54
28	Mucosal Tolerance and Immunity: Regulating the Development of Allergic Disease and Asthma. International Archives of Allergy and Immunology, 2003, 130, 108-118.	2.1	52
29	Role of regulatory dendritic cells in allergy and asthma. Current Allergy and Asthma Reports, 2005, 5, 56-61.	5.3	52
30	Social Networking of Group Two Innate Lymphoid Cells in Allergy and Asthma. Frontiers in Immunology, 2018, 9, 2694.	4.8	52
31	Autophagy is critical for group 2 innate lymphoid cell metabolic homeostasis and effector function. Journal of Allergy and Clinical Immunology, 2020, 145, 502-517.e5.	2.9	47
32	TNFR2 Signaling Enhances ILC2 Survival, Function, and Induction of Airway Hyperreactivity. Cell Reports, 2019, 29, 4509-4524.e5.	6.4	44
33	A CD1d-Dependent Antagonist Inhibits the Activation of Invariant NKT Cells and Prevents Development of Allergen-Induced Airway Hyperreactivity. Journal of Immunology, 2010, 184, 2107-2115.	0.8	43
34	Role of Autophagy in Lung Inflammation. Frontiers in Immunology, 2020, 11, 1337.	4.8	43
35	IL-10, TGF-Î², and glucocorticoid prevent the production of type 2 cytokines in human group 2 innate lymphoid cells. Journal of Allergy and Clinical Immunology, 2018, 141, 1147-1151.e8.	2.9	40
36	IL-10 production by ILC2s requires Blimp-1 and cMaf, modulates cellular metabolism, and ameliorates airway hyperreactivity. Journal of Allergy and Clinical Immunology, 2021, 147, 1281-1295.e5.	2.9	40

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37	Repopulation of T, B, and NK cells following alemtuzumab treatment in relapsing-remitting multiple sclerosis. Journal of Neuroinflammation, 2020, 17, 189.	7.2	34
38	A truncating mutation in the autophagy gene UVRAG drives inflammation and tumorigenesis in mice. Nature Communications, 2019, 10, 5681.	12.8	30
39	Lower omental tâ€regulatory cell count is associated with higher fasting glucose and lower Î²â€cell function in adults with obesity. Obesity, 2016, 24, 1274-1282.	3.0	28
40	Activation of Nonclassical CD1d-Restricted NK T Cells Induces Airway Hyperreactivity in Î²2-Microglobulin-Deficient Mice. Journal of Immunology, 2008, 181, 4560-4569.	0.8	27
41	DR3 stimulation of adipose resident ILC2s ameliorates type 2 diabetes mellitus. Nature Communications, 2020, 11, 4718.	12.8	26
42	Type two innate lymphoid cells: the Janus cells in health and disease. Immunological Reviews, 2017, 278, 192-206.	6.0	25
43	Inclusion of CD80 in HSV Targets the Recombinant Virus to PD-L1 on DCs and Allows Productive Infection and Robust Immune Responses. PLoS ONE, 2014, 9, e87617.	2.5	23
44	Mast cells regulate CD4+ T-cell differentiation in the absence of antigen presentation. Journal of Allergy and Clinical Immunology, 2018, 142, 1894-1908.e7.	2.9	23
45	Role of regulatory dendritic cells in allergy and asthma. Current Opinion in Allergy and Clinical Immunology, 2004, 4, 533-538.	2.3	22
46	Role of plasmacytoid dendritic cell subsets in allergic asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2013, 68, 695-701.	5.7	22
47	Efficacy of Rhesus Theta-Defensin-1 in Experimental Models of Pseudomonas aeruginosa Lung Infection and Inflammation. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	22
48	CD200â€“CD200R immune checkpoint engagement regulates ILC2 effector function and ameliorates lung inflammation in asthma. Nature Communications, 2021, 12, 2526.	12.8	22
49	Lack of PD-L1 Expression by iNKT Cells Improves the Course of Influenza A Infection. PLoS ONE, 2013, 8, e59599.	2.5	21
50	Exposure to Nanoscale Particulate Matter from Gestation to Adulthood Impairs Metabolic Homeostasis in Mice. Scientific Reports, 2019, 9, 1816.	3.3	21
51	AMPK induces regulatory innate lymphoid cells after traumatic brain injury. JCI Insight, 2021, 6, .	5.0	21
52	Distinct Roles of LFA-1 and ICAM-1 on ILC2s Control Lung Infiltration, Effector Functions, and Development of Airway Hyperreactivity. Frontiers in Immunology, 2020, 11, 542818.	4.8	19
53	Batf3 deficiency is not critical for the generation of CD8Î±+ dendritic cells. Immunobiology, 2015, 220, 518-524.	1.9	18
54	LAIR-1 acts as an immune checkpoint on activated ILC2s and regulates the induction of airway hyperreactivity. Journal of Allergy and Clinical Immunology, 2022, 149, 223-236.e6.	2.9	18

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55	The role of iNKT cells in development of bronchial asthma: a translational approach from animal models to human. Allergy: European Journal of Allergy and Clinical Immunology, 2006, 61, 962-968.	5.7	17
56	Effects of Systemic versus Local Administration of Corticosteroids on Mucosal Tolerance. Journal of Immunology, 2012, 188, 470-476.	0.8	16
57	PD-1 Blockade on Tumor Microenvironment-Resident ILC2s Promotes TNF-Î± Production and Restricts Progression of Metastatic Melanoma. Frontiers in Immunology, 2021, 12, 733136.	4.8	16
58	Autophagy impairment in liver CD11c+ cells promotes non-alcoholic fatty liver disease through production of IL-23. Nature Communications, 2022, 13, 1440.	12.8	16
59	Roles of Type 1, 2, and 3 Innate Lymphoid Cells in Herpes Simplex Virus 1 Infection<i>In Vitro</i>and<i>In Vivo</i>. Journal of Virology, 2019, 93, .	3.4	14
60	Type 2 Innate Lymphoid Cells Induce CNS Demyelination in an HSV-IL-2 Mouse Model of Multiple Sclerosis. IScience, 2020, 23, 101549.	4.1	14
61	Cannabinoid receptor 2 engagement promotes group 2 innate lymphoid cell expansion and enhances airway hyperreactivity. Journal of Allergy and Clinical Immunology, 2022, 149, 1628-1642.e10.	2.9	14
62	Innate lymphoid cells: a paradigm for low SSI inÂcleft lip repair. Journal of Surgical Research, 2016, 205, 312-317.	1.6	12
63	Immunologic benefit of maternal donors in pediatric living donor liver transplantation. Pediatric Transplantation, 2019, 23, e13560.	1.0	12
64	ICOS regulates ILC2s in asthma. Oncotarget, 2015, 6, 24584-24585.	1.8	12
65	A Subset of CD8Î±Î²+ Invariant NKT Cells in a Humanized Mouse Model. Journal of Immunology, 2015, 195, 1459-1469.	0.8	11
66	Perinatal nicotine exposureâ€induced transgenerational asthma: Effects of reexposure in F1 gestation. FASEB Journal, 2020, 34, 11444-11459.	0.5	11
67	Creation of a Single Cell RNASeq Meta-Atlas to Define Human Liver Immune Homeostasis. Frontiers in Immunology, 2021, 12, 679521.	4.8	11
68	Herpes Simplex Virus 1 Specifically Targets Human CD1d Antigen Presentation To Enhance Its Pathogenicity. Journal of Virology, 2018, 92, .	3.4	10
69	A GWAS approach identifies Dapp1 as a determinant of air pollution-induced airway hyperreactivity. PLoS Genetics, 2019, 15, e1008528.	3.5	9
70	Type 2 Innate Lymphoid Cells: Protectors in Type 2 Diabetes. Frontiers in Immunology, 2021, 12, 727008.	4.8	8
71	Isoaspartylation appears to trigger small cell lung cancer-associated autoimmunity against neuronal protein ELAVL4. Journal of Neuroimmunology, 2016, 299, 70-78.	2.3	7
72	CD52-targeted depletion by Alemtuzumab ameliorates allergic airway hyperreactivity and lung inflammation. Mucosal Immunology, 2021, 14, 899-911.	6.0	7

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73	Reply to Natural killer T cells and CD8+ T cells are dispensable for T cellâ€"dependent allergic airway inflammation. Nature Medicine, 2006, 12, 1347-1347.	30.7	4
74	Feasibility of quantifying change in immune white cells in abdominal adipose tissue in response to an immune modulator in clinical obesity. PLoS ONE, 2020, 15, e0237496.	2.5	4
75	Adaptation of Imaging Mass Cytometry to Explore the Single Cell Alloimmune Landscape of Liver Transplant Rejection. Frontiers in Immunology, 2022, 13, 831103.	4.8	4
76	Near-roadway air pollution, immune cells and adipokines among obese young adults. Environmental Health, 2022, 21, 36.	4.0	4
77	Absence of CD28-CTLA4-PD-L1 Costimulatory Molecules Reduces Herpes Simplex Virus 1 Reactivation. MBio, 2021, 12, e0117621.	4.1	2
78	Response to â€œCD8 subunit expression by plasmacytoid dendritic cells is variable, and does not define stable subsetsâ€. Mucosal Immunology, 2014, 7, 1278-1279.	6.0	1
79	Impact of a Demyelination-Inducing Central Nervous System Virus on Expression of Demyelination Genes in Type 2 Lymphoid Cells. Journal of Virology, 2021, 95, .	3.4	1
80	Analysis of the interplay between hepatitis B virus-positive hepatocytes and Kupffer cells ex vivo using mice as a model. STAR Protocols, 2022, 3, 101364.	1.2	1
81	Reply. Journal of Allergy and Clinical Immunology, 2017, 139, 712-713.	2.9	0