

Antonio Lanzavecchia

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

38,059
citations

15504

65
h-index

26613

107
g-index

126
all docs

126
docs citations

126
times ranked

41018
citing authors

#	ARTICLE	IF	CITATIONS
1	Two subsets of memory T lymphocytes with distinct homing potentials and effector functions. <i>Nature</i> , 1999, 401, 708-712.	27.8	5,333
2	Cross-neutralization of SARS-CoV-2 by a human monoclonal SARS-CoV antibody. <i>Nature</i> , 2020, 583, 290-295.	27.8	1,695
3	Surface phenotype and antigenic specificity of human interleukin 17-producing T helper memory cells. <i>Nature Immunology</i> , 2007, 8, 639-646.	14.5	1,670
4	Plasmacytoid monocytes migrate to inflamed lymph nodes and produce large amounts of type I interferon. <i>Nature Medicine</i> , 1999, 5, 919-923.	30.7	1,560
5	Antigen-specific interaction between T and B cells. <i>Nature</i> , 1985, 314, 537-539.	27.8	1,323
6	Mapping Neutralizing and Immunodominant Sites on the SARS-CoV-2 Spike Receptor-Binding Domain by Structure-Guided High-Resolution Serology. <i>Cell</i> , 2020, 183, 1024-1042.e21.	28.9	1,195
7	Maintenance of Serological Memory by Polyclonal Activation of Human Memory B Cells. <i>Science</i> , 2002, 298, 2199-2202.	12.6	1,158
8	A Neutralizing Antibody Selected from Plasma Cells That Binds to Group 1 and Group 2 Influenza A Hemagglutinins. <i>Science</i> , 2011, 333, 850-856.	12.6	1,092
9	L-Arginine Modulates T Cell Metabolism and Enhances Survival and Anti-tumor Activity. <i>Cell</i> , 2016, 167, 829-842.e13.	28.9	1,077
10	Serial triggering of many T-cell receptors by a few peptide-MHC complexes. <i>Nature</i> , 1995, 375, 148-151.	27.8	1,045
11	Rapid and coordinated switch in chemokine receptor expression during dendritic cell maturation. <i>European Journal of Immunology</i> , 1998, 28, 2760-2769.	2.9	1,020
12	Selective Expression of the Eotaxin Receptor CCR3 by Human T Helper 2 Cells. <i>Science</i> , 1997, 277, 2005-2007.	12.6	1,011
13	Inflammatory stimuli induce accumulation of MHC class II complexes on dendritic cells. <i>Nature</i> , 1997, 388, 782-787.	27.8	996
14	The Role of Chemokine Receptors in Primary, Effector, and Memory Immune Responses. <i>Annual Review of Immunology</i> , 2000, 18, 593-620.	21.8	969
15	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. <i>Nature</i> , 2022, 602, 664-670.	27.8	917
16	T Lymphocyte Costimulation Mediated by Reorganization of Membrane Microdomains. <i>Science</i> , 1999, 283, 680-682.	12.6	897
17	Pathogen-induced human TH17 cells produce IFN- γ or IL-10 and are regulated by IL-1 β . <i>Nature</i> , 2012, 484, 514-518.	27.8	835
18	A SARS-like cluster of circulating bat coronaviruses shows potential for human emergence. <i>Nature Medicine</i> , 2015, 21, 1508-1513.	30.7	753

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19	Universally immunogenic T cell epitopes: promiscuous binding to human MHC class II and promiscuous recognition by T cells. <i>European Journal of Immunology</i> , 1989, 19, 2237-2242.	2.9	703
20	An efficient method to make human monoclonal antibodies from memory B cells: potent neutralization of SARS coronavirus. <i>Nature Medicine</i> , 2004, 10, 871-875.	30.7	679
21	Specificity, cross-reactivity, and function of antibodies elicited by Zika virus infection. <i>Science</i> , 2016, 353, 823-826.	12.6	675
22	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. <i>Nature</i> , 2021, 593, 136-141.	27.8	648
23	Distinct patterns and kinetics of chemokine production regulate dendritic cell function. <i>European Journal of Immunology</i> , 1999, 29, 1617-1625.	2.9	588
24	Unexpected Receptor Functional Mimicry Elucidates Activation of Coronavirus Fusion. <i>Cell</i> , 2019, 176, 1026-1039.e15.	28.9	558
25	SARS-like WIV1-CoV poised for human emergence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3048-3053.	7.1	373
26	The mannose receptor functions as a high capacity and broad specificity antigen receptor in human dendritic cells. <i>European Journal of Immunology</i> , 1997, 27, 2417-2425.	2.9	371
27	Protective monotherapy against lethal Ebola virus infection by a potently neutralizing antibody. <i>Science</i> , 2016, 351, 1339-1342.	12.6	370
28	Structure and Function Analysis of an Antibody Recognizing All Influenza A Subtypes. <i>Cell</i> , 2016, 166, 596-608.	28.9	320
29	Functional heterogeneity of human memory CD4 ⁺ T cell clones primed by pathogens or vaccines. <i>Science</i> , 2015, 347, 400-406.	12.6	309
30	High-avidity IgA protects the intestine by enchaining growing bacteria. <i>Nature</i> , 2017, 544, 498-502.	27.8	307
31	Activated human T cells express a ligand for the human B cell-associated antigen CD40 which participates in T cell-dependent activation of B lymphocytes. <i>European Journal of Immunology</i> , 1992, 22, 2573-2578.	2.9	302
32	Rapid development of broadly influenza neutralizing antibodies through redundant mutations. <i>Nature</i> , 2014, 516, 418-422.	27.8	300
33	T cells can present antigens such as HIV gp120 targeted to their own surface molecules. <i>Nature</i> , 1988, 334, 530-532.	27.8	296
34	Social network architecture of human immune cells unveiled by quantitative proteomics. <i>Nature Immunology</i> , 2017, 18, 583-593.	14.5	296
35	Cholera toxin induces maturation of human dendritic cells and licenses them for Th2 priming. <i>European Journal of Immunology</i> , 2000, 30, 2394-2403.	2.9	287
36	Broad betacoronavirus neutralization by a stem helix-specific human antibody. <i>Science</i> , 2021, 373, 1109-1116.	12.6	262

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37	T cells in patients withÂnarcolepsy target self-antigens of hypocretin neurons. <i>Nature</i> , 2018, 562, 63-68.	27.8	244
38	Lectins enhance SARS-CoV-2 infection and influence neutralizing antibodies. <i>Nature</i> , 2021, 598, 342-347.	27.8	230
39	Cross-neutralization of four paramyxoviruses by a human monoclonal antibody. <i>Nature</i> , 2013, 501, 439-443.	27.8	220
40	The use of hybrid hybridomas to target human cytotoxic T lymphocytes. <i>European Journal of Immunology</i> , 1987, 17, 105-111.	2.9	198
41	Prophylactic and postexposure efficacy of a potent human monoclonal antibody against MERS coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10473-10478.	7.1	198
42	A public antibody lineage that potently inhibits malaria infection through dual binding to the circumsporozoite protein. <i>Nature Medicine</i> , 2018, 24, 401-407.	30.7	183
43	Structural and molecular basis for Ebola virus neutralization by protective human antibodies. <i>Science</i> , 2016, 351, 1343-1346.	12.6	176
44	Irreversible association of peptides with class II MHC molecules in living cells. <i>Nature</i> , 1992, 357, 249-252.	27.8	172
45	An Unbiased Screen for Human Cytomegalovirus Identifies Neuropilin-2 as a Central Viral Receptor. <i>Cell</i> , 2018, 174, 1158-1171.e19.	28.9	171
46	The interplay between the duration of TCR and cytokine signaling determines T cell polarization. <i>European Journal of Immunology</i> , 1999, 29, 4092-4101.	2.9	169
47	Dendritic cells up-regulate immunoproteasomes and the proteasome regulator PA28 during maturation. <i>European Journal of Immunology</i> , 1999, 29, 4037-4042.	2.9	165
48	Antigen Uptake and Accumulation in Antigen-Specific B Cells. <i>Immunological Reviews</i> , 1987, 99, 39-51.	6.0	150
49	Structural Basis for Potent Cross-Neutralizing Human Monoclonal Antibody Protection against Lethal Human and Zoonotic Severe Acute Respiratory Syndrome Coronavirus Challenge. <i>Journal of Virology</i> , 2008, 82, 3220-3235.	3.4	144
50	Pemphigus autoantibodies generated through somatic mutations target the desmoglein-3 cis-interface. <i>Journal of Clinical Investigation</i> , 2012, 122, 3781-3790.	8.2	142
51	A LAIR1 insertion generates broadly reactive antibodies against malaria variant antigens. <i>Nature</i> , 2016, 529, 105-109.	27.8	140
52	Antibody-driven design of a human cytomegalovirus gHgLpUL128L subunit vaccine that selectively elicits potent neutralizing antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17965-17970.	7.1	116
53	Clonal analysis of immunodominance and cross-reactivity of the CD4 T cell response to SARS-CoV-2. <i>Science</i> , 2021, 372, 1336-1341.	12.6	108
54	Integrated longitudinal immunophenotypic, transcriptional, and repertoire analyses delineate immune responses in patients with COVID-19. <i>Science Immunology</i> , 2021, 6, .	11.9	108

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55	Professional presentation of antigen by activated human T cells. <i>European Journal of Immunology</i> , 1994, 24, 71-75.	2.9	106
56	The set of naturally processed peptides displayed by DR molecules is tuned by polymorphism of residue 86. <i>European Journal of Immunology</i> , 1993, 23, 425-432.	2.9	105
57	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. <i>Nature</i> , 0, , .	27.8	101
58	Incomplete genetic reconstitution of B cell pools contributes to prolonged immunosuppression after measles. <i>Science Immunology</i> , 2019, 4, .	11.9	98
59	Persistent Antibody Clonotypes Dominate the Serum Response to Influenza over Multiple Years and Repeated Vaccinations. <i>Cell Host and Microbe</i> , 2019, 25, 367-376.e5.	11.0	93
60	Public antibodies to malaria antigens generated by two LAIR1 insertion modalities. <i>Nature</i> , 2017, 548, 597-601.	27.8	91
61	Dendritic cell maturation is induced by mycoplasma infection but not by necrotic cells. <i>European Journal of Immunology</i> , 2000, 30, 705-708.	2.9	89
62	Human monoclonal antibodies by immortalization of memory B cells. <i>Current Opinion in Biotechnology</i> , 2007, 18, 523-528.	6.6	89
63	Escape from Human Monoclonal Antibody Neutralization Affects In Vitro and In Vivo Fitness of Severe Acute Respiratory Syndrome Coronavirus. <i>Journal of Infectious Diseases</i> , 2010, 201, 946-955.	4.0	88
64	ACE2-binding exposes the SARS-CoV-2 fusion peptide to broadly neutralizing coronavirus antibodies. <i>Science</i> , 2022, 377, 735-742.	12.6	85
65	Neutralization and clearance of GM-CSF by autoantibodies in pulmonary alveolar proteinosis. <i>Nature Communications</i> , 2015, 6, 7375.	12.8	74
66	Development of broad-spectrum human monoclonal antibodies for rabies post-exposure prophylaxis. <i>EMBO Molecular Medicine</i> , 2016, 8, 407-421.	6.9	73
67	Immune stealth-driven O2 serotype prevalence and potential for therapeutic antibodies against multidrug resistant <i>Klebsiella pneumoniae</i> . <i>Nature Communications</i> , 2017, 8, 1991.	12.8	70
68	Structure-based design of a quadrivalent fusion glycoprotein vaccine for human parainfluenza virus types 1-4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12265-12270.	7.1	70
69	Signal extinction and T cell repolarization in T helper cell-antigen-presenting cell conjugates. <i>European Journal of Immunology</i> , 1996, 26, 2012-2016.	2.9	66
70	CD40 ligand-independent B cell activation revealed by CD40 ligand-deficient T cell clones: evidence for distinct activation requirements for antibody formation and B cell proliferation. <i>European Journal of Immunology</i> , 1995, 25, 1788-1793.	2.9	63
71	Is the T-cell receptor involved in T-cell killing?. <i>Nature</i> , 1986, 319, 778-780.	27.8	62
72	Macrophage Death following Influenza Vaccination Initiates the Inflammatory Response that Promotes Dendritic Cell Function in the Draining Lymph Node. <i>Cell Reports</i> , 2017, 18, 2427-2440.	6.4	61

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73	Within-Host Evolution Results in Antigenically Distinct GII.4 Noroviruses. <i>Journal of Virology</i> , 2014, 88, 7244-7255.	3.4	60
74	Agonist-induced T cell receptor down-regulation: molecular requirements and dissociation from T cell activation. <i>European Journal of Immunology</i> , 1997, 27, 1769-1773.	2.9	59
75	Role of cAMP in regulating cytotoxic T lymphocyte adhesion and motility. <i>European Journal of Immunology</i> , 1993, 23, 790-795.	2.9	58
76	Clonal expansions of V α 1+ and V α 2+ cells increase with age and limit the repertoire of human α 1 β T cells. <i>European Journal of Immunology</i> , 1994, 24, 1914-1918.	2.9	57
77	Particle Conformation Regulates Antibody Access to a Conserved GII.4 Norovirus Blockade Epitope. <i>Journal of Virology</i> , 2014, 88, 8826-8842.	3.4	54
78	Antibody-guided vaccine design: identification of protective epitopes. <i>Current Opinion in Immunology</i> , 2016, 41, 62-67.	5.5	53
79	Re-expression of RAG-1 and RAG-2 genes and evidence for secondary rearrangements in human germinal center B lymphocytes. <i>European Journal of Immunology</i> , 1998, 28, 3506-3513.	2.9	47
80	Role of B cells in TH cell responses in a mouse model of asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1395-1410.	2.9	39
81	Clonal structure, stability and dynamics of human memory B cells and circulating plasmablasts. <i>Nature Immunology</i> , 2022, 23, 1076-1085.	14.5	39
82	Protection of calves by a prefusion-stabilized bovine RSV F vaccine. <i>Npj Vaccines</i> , 2017, 2, 7.	6.0	38
83	T α cell activation and the dynamic world of rafts. <i>Apmis</i> , 1999, 107, 615-623.	2.0	36
84	Rapid generation of a human monoclonal antibody to combat Middle East respiratory syndrome. <i>Journal of Infection and Public Health</i> , 2016, 9, 231-235.	4.1	36
85	Clonally expanded EOMES+ Tr1-like cells in primary and metastatic tumors are associated with disease progression. <i>Nature Immunology</i> , 2021, 22, 735-745.	14.5	36
86	ERK phosphorylation and miR-181a expression modulate activation of human memory TH17 cells. <i>Nature Communications</i> , 2015, 6, 6431.	12.8	35
87	T cell clones with normal or defective O-galactosylation from a patient with permanent mixed-field polyagglutinability. <i>European Journal of Immunology</i> , 1992, 22, 1835-1842.	2.9	33
88	Serum Immunoglobulin A Cross-Strain Blockade of Human Noroviruses. <i>Open Forum Infectious Diseases</i> , 2015, 2, ofv084.	0.9	31
89	T cell epitope analysis with peptides simultaneously synthesized on cellulose membranes: Fine mapping of two DQ dependent epitopes. <i>FEBS Letters</i> , 1994, 352, 167-170.	2.8	28
90	Deciphering and predicting CD4+ T cell immunodominance of influenza virus hemagglutinin. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	28

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91	In vivo localization of a bispecific antibody which targets human t lymphocytes to lyse human colon cancer cells. <i>International Journal of Cancer</i> , 1989, 43, 501-507.	5.1	25
92	Structure, receptor recognition, and antigenicity of the human coronavirus CCoV-HuPn-2018 spike glycoprotein. <i>Cell</i> , 2022, 185, 2279-2291.e17.	28.9	25
93	Machine learning analyses of antibody somatic mutations predict immunoglobulin light chain toxicity. <i>Nature Communications</i> , 2021, 12, 3532.	12.8	23
94	A rationally designed oral vaccine induces immunoglobulin A in the murine gut that directs the evolution of attenuated <i>Salmonella</i> variants. <i>Nature Microbiology</i> , 2021, 6, 830-841.	13.3	21
95	A T cell receptor (TCR) antagonist competitively inhibits serial TCR triggering by low-affinity ligands, but does not affect triggering by high-affinity anti-CD3 antibodies. <i>European Journal of Immunology</i> , 1997, 27, 3080-3083.	2.9	20
96	Interprotomer disulfide-stabilized variants of the human metapneumovirus fusion glycoprotein induce high titer-neutralizing responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20
97	Two subsets of memory T lymphocytes with distinct homing potentials and effector functions. <i>Nature</i> , 1999, 402, 34-38.	27.8	19
98	AncesTree: An interactive immunoglobulin lineage tree visualizer. <i>PLoS Computational Biology</i> , 2020, 16, e1007731.	3.2	18
99	Lysis of nonnucleated red blood cells by cytotoxic T lymphocytes. <i>European Journal of Immunology</i> , 1987, 17, 1073-1074.	2.9	15
100	Dissecting human antibody responses: useful, basic and surprising findings. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	14
101	Broadly reactive human CD4 ⁺ T cells against Enterobacteriaceae are found in the naïve repertoire and are clonally expanded in the memory repertoire. <i>European Journal of Immunology</i> , 2021, 51, 648-661.	2.9	13
102	T cell activation by a bispecific anti-CD3/anti-major histocompatibility complex class I antibody. <i>European Journal of Immunology</i> , 1990, 20, 1393-1396.	2.9	12
103	Peptide partners call the tune. <i>Nature</i> , 1994, 371, 198-199.	27.8	12
104	Structural basis of malaria RIFIN binding by LILRB1-containing antibodies. <i>Nature</i> , 2021, 592, 639-643.	27.8	8
105	The interplay between the duration of TCR and cytokine signaling determines T cell polarization. <i>European Journal of Immunology</i> , 1999, 29, 4092-4101.	2.9	8
106	Exceptionally potent human monoclonal antibodies are effective for prophylaxis and treatment of tetanus in mice. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	8
107	Dendritic cell maturation is induced by mycoplasma infection but not by necrotic cells. , 2000, 30, 705.		4
108	Rapid and coordinated switch in chemokine receptor expression during dendritic cell maturation. , 1998, 28, 2760.		2

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109	Distinct patterns and kinetics of chemokine production regulate dendritic cell function. , 1999, 29, 1617.		2
110	Structural basis of LAIR1 targeting by polymorphic Plasmodium RIFINs. Nature Communications, 2021, 12, 4226.	12.8	1
111	How Many Ways Can a Killer Cell Kill?. International Reviews of Immunology, 1989, 4, 109-114.	3.3	0
112	Presentation of Self-Peptides: Consequences for Self Nonself Discrimination and Allorecognition. International Reviews of Immunology, 1993, 10, 321-326.	3.3	0
113	AncesTree: An interactive immunoglobulin lineage tree visualizer. , 2020, 16, e1007731.		0
114	AncesTree: An interactive immunoglobulin lineage tree visualizer. , 2020, 16, e1007731.		0
115	AncesTree: An interactive immunoglobulin lineage tree visualizer. , 2020, 16, e1007731.		0
116	AncesTree: An interactive immunoglobulin lineage tree visualizer. , 2020, 16, e1007731.		0