David Nemazee

List of Publications by Year
in descending order

107 papers	12,148 citations	38738 50 h-index	31843 101 g-index
139 all docs	139 docs citations	139 times ranked	13765 citing authors

#	Article	IF	Citations
1	Isolation of potent SARS-CoV-2 neutralizing antibodies and protection from disease in a small animal model. Science, 2020, 369, 956-963.	12.6	1,287
2	Rational HIV Immunogen Design to Target Specific Germline B Cell Receptors. Science, 2013, 340, 711-716.	12.6	680
3	Adjuvant-Enhanced Antibody Responses in the Absence of Toll-Like Receptor Signaling. Science, 2006, 314, 1936-1938.	12.6	545
4	Broad neutralization of SARS-related viruses by human monoclonal antibodies. Science, 2020, 369, 731-736.	12.6	534
5	Priming a broadly neutralizing antibody response to HIV-1 using a germline-targeting immunogen. Science, 2015, 349, 156-161.	12.6	358
6	Peripheral deletion of self-reactive B cells. Nature, 1991, 354, 308-311.	27.8	348
7	Mechanisms of central tolerance for B cells. Nature Reviews Immunology, 2017, 17, 281-294.	22.7	316
8	Receptor editing in lymphocyte development and central tolerance. Nature Reviews Immunology, 2006, 6, 728-740.	22.7	310
9	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. Science, 2021, 373, 818-823.	12.6	309
10	Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate. Science, 2020, 370, 1089-1094.	12.6	290
11	Broad and potent activity against SARS-like viruses by an engineered human monoclonal antibody. Science, 2021, 371, 823-829.	12.6	285
12	Contribution of Receptor Editing to the Antibody Repertoire. Science, 2001, 291, 1541-1544.	12.6	277
13	Precursor Frequency and Affinity Determine B Cell Competitive Fitness in Germinal Centers, Tested with Germline-Targeting HIV Vaccine Immunogens. Immunity, 2018, 48, 133-146.e6.	14.3	274
14	Receptor Editing in a Transgenic Mouse Model: Site, Efficiency, and Role in B Cell Tolerance and Antibody Diversification. Immunity, 1997, 7, 765-775.	14.3	268
15	V(D)J Recombination in Mature B Cells: A Mechanism for Altering Antibody Responses. Science, 1997, 278, 298-301.	12.6	248
16	Revising B Cell Receptors. Journal of Experimental Medicine, 2000, 191, 1813-1818.	8.5	239
17	Tailored Immunogens Direct Affinity Maturation toward HIV Neutralizing Antibodies. Cell, 2016, 166, 1459-1470.e11.	28.9	230
18	Cross-reactive serum and memory B-cell responses to spike protein in SARS-CoV-2 and endemic coronavirus infection. Nature Communications, 2021, 12, 2938.	12.8	219

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19	Developmental Regulation of B Lymphocyte Immune Tolerance Compartmentalizes Clonal Selection from Receptor Selection. Cell, 1998, 92, 173-182.	28.9	214
20	Receptor Selection in B and T Lymphocytes. Annual Review of Immunology, 2000, 18, 19-51.	21.8	206
21	Polyspecificity of T cell and B cell receptor recognition. Seminars in Immunology, 2007, 19, 216-224.	5.6	194
22	Receptor Editing Occurs Frequently during Normal B Cell Development. Journal of Experimental Medicine, 1998, 188, 1231-1238.	8.5	179
23	BCR Ligation Induces Receptor Editing in IgM+IgDâ^' Bone Marrow B Cells In Vitro. Immunity, 1997, 6, 429-436.	14.3	169
24	Design and crystal structure of a native-like HIV-1 envelope trimer that engages multiple broadly neutralizing antibody precursors in vivo. Journal of Experimental Medicine, 2017, 214, 2573-2590.	8.5	151
25	Decoration of T-independent antigen with ligands for CD22 and Siglec-G can suppress immunity and induce B cell tolerance in vivo. Journal of Experimental Medicine, 2010, 207, 173-187.	8.5	150
26	Presenting native-like trimeric HIV-1 antigens with self-assembling nanoparticles. Nature Communications, 2016, 7, 12041.	12.8	146
27	High-Density Array of Well-Ordered HIV-1 Spikes on Synthetic Liposomal Nanoparticles Efficiently Activate B Cells. Cell Reports, 2016, 15, 1986-1999.	6.4	127
28	Enforced Bcl-2 Expression Inhibits Antigen-mediated Clonal Elimination of Peripheral B Cells in an Antigen Doseâ€“dependent Manner and Promotes Receptor Editing in Autoreactive, Immature B Cells. Journal of Experimental Medicine, 1997, 186, 1513-1522.	8.5	123
29	The microRNA miR-148a functions as a critical regulator of B cell tolerance and autoimmunity. Nature Immunology, 2016, 17, 433-440.	14.5	123
30	A human antibody reveals a conserved site on beta-coronavirus spike proteins and confers protection against SARS-CoV-2 infection. Science Translational Medicine, 2022, 14, eabi9215.	12.4	123
31	V(D)J recombinase induction in splenic B lymphocytes is inhibited by antigen-receptor signalling. Nature, 1998, 394, 292-295.	27.8	112
32	Broadly neutralizing antibodies target the coronavirus fusion peptide. Science, 2022, 377, 728-735.	12.6	111
33	Immune Tolerance Negatively Regulates B Cells in Knock-In Mice Expressing Broadly Neutralizing HIV Antibody 4E10. Journal of Immunology, 2013, 191, 3186-3191.	0.8	103
34	Basal B Cell Receptor-Directed Phosphatidylinositol 3-Kinase Signaling Turns Off RAGs and Promotes B Cell-Positive Selection. Journal of Immunology, 2007, 178, 6332-6341.	0.8	92
35	Distinct roles for E12 and E47 in B cell specification and the sequential rearrangement of immunoglobulin light chain loci. Journal of Experimental Medicine, 2009, 206, 2271-2284.	8.5	91
36	PLD3 and PLD4 are single-stranded acid exonucleases that regulate endosomal nucleic-acid sensing. Nature Immunology, 2018, 19, 942-953.	14.5	88

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37	Regulation of the B Cell Receptor Repertoire and Self-Reactivity by BAFF. Journal of Immunology, 2010, 185, 4128-4136.	0.8	85
38	The P4-type ATPase ATP11C is essential for B lymphopoiesis in adult bone marrow. Nature Immunology, 2011, 12, 434-440.	14.5	85
39	A Role for Nuclear Factor Kappa B/Rel Transcription Factors in the Regulation of the Recombinase Activator Genes. Immunity, 2005, 22, 519-531.	14.3	80
40	Bispecific antibodies targeting distinct regions of the spike protein potently neutralize SARS-CoV-2 variants of concern. Science Translational Medicine, 2021, 13, eabj5413.	12.4	79
41	HIV-1 vaccine design through minimizing envelope metastability. Science Advances, 2018, 4, eaau6769.	10.3	75
42	Antigen receptor â€˜capacityâ€™ and the sensitivity of self-tolerance. Trends in Immunology, 1996, 17, 25-29.	7.5	74
43	A VH11Vî9 B Cell Antigen Receptor Drives Generation of CD5+ B Cells Both In Vivo and In Vitro. Journal of Immunology, 2000, 164, 4586-4593.	0.8	72
44	Skewed Primary Igî Repertoire and Vâ€“J Joining in C57BL/6 Mice: Implications for Recombination Accessibility and Receptor Editing. Journal of Immunology, 2012, 188, 2305-2315.	0.8	71
45	T Cell-Independent Rescue of B Lymphocytes from Peripheral Immune Tolerance. Science, 2000, 287, 2501-2503.	12.6	69
46	Reprogramming the antigen specificity of B cells using genome-editing technologies. ELife, 2019, 8, .	6.0	69
47	Antigen receptor selection by editing or downregulation of V(D)J recombination. Current Opinion in Immunology, 2003, 15, 182-189.	5.5	68
48	Regulation of B-cell development and tolerance by different members of the miR-17â^¼92 family microRNAs. Nature Communications, 2016, 7, 12207.	12.8	65
49	An immunoglobulin Cî-reactive single chain antibody fusion protein induces tolerance through receptor editing in a normal polyclonal immune system. Journal of Experimental Medicine, 2005, 201, 817-828.	8.5	61
50	Immunogenicity of RNA Replicons Encoding HIV Env Immunogens Designed for Self-Assembly into Nanoparticles. Molecular Therapy, 2019, 27, 2080-2090.	8.2	58
51	Commercial Serology Assays Predict Neutralization Activity against SARS-CoV-2. Clinical Chemistry, 2021, 67, 404-414.	3.2	58
52	Anti-HIV B Cell Lines as Candidate Vaccine Biosensors. Journal of Immunology, 2012, 189, 4816-4824.	0.8	57
53	A natural mutation between SARS-CoV-2 and SARS-CoV determines neutralization by a cross-reactive antibody. PLoS Pathogens, 2020, 16, e1009089.	4.7	55
54	Receptor editing and commitment in B lymphocytes. Current Opinion in Immunology, 1998, 10, 208-213.	5.5	52

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55	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens. PLoS Pathogens, 2020, 16, e1008665.	4.7	52
56	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection. Cell Host and Microbe, 2021, 29, 806-818.e6.	11.0	49
57	Efficient Peripheral Clonal Elimination of B Lymphocytes in MRL/lpr Mice Bearing Autoantibody Transgenes. Journal of Experimental Medicine, 1998, 188, 909-917.	8.5	46
58	The scope of receptor editing and its association with autoimmunity. Current Opinion in Immunology, 2004, 16, 808-814.	5.5	46
59	Rearrangement of Mouse Immunoglobulin Kappa Deleting Element Recombining Sequence Promotes Immune Tolerance and Lambda B Cell Production. Immunity, 2008, 28, 161-170.	14.3	46
60	FGD2, a CDC42-specific Exchange Factor Expressed by Antigen-presenting Cells, Localizes to Early Endosomes and Active Membrane Ruffles. Journal of Biological Chemistry, 2008, 283, 34002-34012.	3.4	46
61	B cells expressing authentic naive human VRC01-class BCRs can be recruited to germinal centers and affinity mature in multiple independent mouse models. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22920-22931.	7.1	42
62	B Cells from Knock-in Mice Expressing Broadly Neutralizing HIV Antibody b12 Carry an Innocuous B Cell Receptor Responsive to HIV Vaccine Candidates. Journal of Immunology, 2013, 191, 3179-3185.	0.8	41
63	Vaccine elicitation of HIV broadly neutralizing antibodies from engineered B cells. Nature Communications, 2020, 11, 5850.	12.8	38
64	Receptor editing and genetic variability in human autoreactive B cells. Journal of Experimental Medicine, 2016, 213, 93-108.	8.5	37
65	Reduced receptor editing in lupus-prone MRL/lpr mice. Journal of Experimental Medicine, 2007, 204, 2853-2864.	8.5	36
66	Role of receptor editing and revision in shaping the B and T lymphocyte repertoire. Life Sciences, 2001, 69, 1105-1113.	4.3	35
67	A broad and potent neutralization epitope in SARS-related coronaviruses. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	34
68	The Bacterial Peptidoglycan-Sensing Molecules NOD1 and NOD2 Promote CD8+Thymocyte Selection. Journal of Immunology, 2017, 198, 2649-2660.	0.8	31
69	Paucity of V-D-D-J Rearrangements and VH Replacement Events in Lupus Prone and Nonautoimmune TdTâ^'/â^' and TdT+/+ Mice. Journal of Immunology, 2006, 177, 1120-1128.	0.8	29
70	In vivo engineered B cells secrete high titers of broadly neutralizing anti-HIV antibodies in mice. Nature Biotechnology, 2022, 40, 1241-1249.	17.5	29
71	B cell clonal elimination induced by membrane-bound self-antigen may require repeated antigen encounter or cell competition. European Journal of Immunology, 2000, 30, 689-696.	2.9	25
72	Deletion of IgG-Switched Autoreactive B Cells and Defects in Faslpr Lupus Mice. Journal of Immunology, 2010, 185, 1015-1027.	0.8	25

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73	Negative Selection by IgM Superantigen Defines a B Cell Central Tolerance Compartment and Reveals Mutations Allowing Escape. Journal of Immunology, 2011, 187, 5596-5605.	0.8	25
74	SARS-CoV-2 Serology Status Detected by Commercialized Platforms Distinguishes Previous Infection and Vaccination Adaptive Immune Responses. journal of applied laboratory medicine, The, 2021, 6, 1109-1122.	1.3	24
75	MicroRNA control of B cell tolerance, autoimmunity and cancer. Seminars in Cancer Biology, 2020, 64, 102-107.	9.6	23
76	A mutation of Ikbkg causes immune deficiency without impairing degradation of IÂBÂ. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3046-3051.	7.1	21
77	Cleavage of DNA and RNA by PLD3 and PLD4 limits autoinflammatory triggering by multiple sensors. Nature Communications, 2021, 12, 5874.	12.8	21
78	Tolerance-induced receptor selection: scope, sensitivity, locus specificity, and relationship to lymphocyte-positive selection. Immunological Reviews, 2004, 197, 219-230.	6.0	19
79	Peripheral B Cell Tolerance and Function in Transgenic Mice Expressing an IgD Superantigen. Journal of Immunology, 2010, 184, 4143-4158.	0.8	19
80	Suppression of IgE B Cells and IgE Binding to FcÎµRI by Gene Therapy with Single-Chain Anti-IgE. Journal of Immunology, 2009, 182, 8110-8117.	0.8	18
81	2G12-Expressing B Cell Lines May Aid in HIV Carbohydrate Vaccine Design Strategies. Journal of Virology, 2013, 87, 2234-2241.	3.4	18
82	Generation of T follicular helper cells inÂvitro: requirement for <scp>B</scp>â€cell receptor crossâ€linking and cognate Bâ€•and Tâ€cell interaction. Immunology, 2018, 153, 214-224.	4.4	18
83	Liver-expressed IgÎº superantigen induces tolerance of polyclonal B cells by clonal deletion not Îº to Î» receptor editing. Journal of Experimental Medicine, 2011, 208, 617-629.	8.5	17
84	A pandemic-enabled comparison of discovery platforms demonstrates a naiÌˆve antibody library can match the best immune-sourced antibodies. Nature Communications, 2022, 13, 462.	12.8	17
85	Split Tolerance in Peripheral B Cell Subsets in Mice Expressing a Low Level of IgÎº-Reactive Ligand. Journal of Immunology, 2006, 176, 939-948.	0.8	16
86	Effect of cell:cell competition and BAFF expression on peripheral B cell tolerance and B-1 cell survival in transgenic mice expressing a low level of IgÎº-reactive macroself antigen. European Journal of Immunology, 2006, 36, 985-996.	2.9	15
87	Detection and activation of HIV broadly neutralizing antibody precursor B cells using anti-idiotypes. Journal of Experimental Medicine, 2019, 216, 2331-2347.	8.5	13
88	Anti-laminin Reactivity and Glomerular Immune Deposition by in Vitro Recombinant Antibodies. Autoimmunity, 1997, 26, 231-243.	2.6	12
89	Activated protein C ameliorates chronic graft-versus-host disease by PAR1-dependent biased cell signaling on T cells. Blood, 2019, 134, 776-781.	1.4	12
90	PLD3 and spinocerebellar ataxia. Brain, 2018, 141, e78-e78.	7.6	11

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91	Natural history of MZ B cells. Journal of Experimental Medicine, 2021, 218, .	8.5	11
92	Role of B Cell Antigen Receptor in Regulation of V(D)J Recombination and Cell Survival. Immunologic Research, 2000, 21, 259-264.	2.9	10
93	Can receptor editing play an important role in normal B-cell development?. Journal of Autoimmunity, 1996, 9, 259-261.	6.5	9
94	A Rapid Assay for SARS-CoV-2 Neutralizing Antibodies That Is Insensitive to Antiretroviral Drugs. Journal of Immunology, 2021, 207, 344-351.	0.8	5
95	Induction of Cross-Reactive and Protective Antibody Responses After DNA Vaccination With MHCII-Targeted Stem Domain From Influenza Hemagglutinin. Frontiers in Immunology, 2020, 11, 431.	4.8	4
96	Receptor editing: Genetic reprogramming of autoreactive lymphocytes. Cell Biochemistry and Biophysics, 1999, 31, 81-88.	1.8	3
97	Haplotype exclusion and receptor editing: irreconcilable differences?. Seminars in Immunology, 2002, 14, 191-198.	5.6	3
98	Do B Cells Take Advantage of 'Missing Selfï¿½ Recognition?. , 2002, 6, 245-264.		3
99	Prediabetes Induced by a Single Autoimmune B Cell Clone. Frontiers in Immunology, 2020, 11, 1073.	4.8	3
100	Peripheral B lymphocyte tolerance. Keio Journal of Medicine, 2004, 53, 151-158.	1.1	2
101	Role of RS/ÎºDE in B Cell Receptor Editing. , 2007, 596, 169-172.		1
102	B Cells Carrying Antigen Receptors Against Microbes as Tools for Vaccine Discovery and Design. Current Topics in Microbiology and Immunology, 2019, 428, 165-180.	1.1	0
103	Central B Cell Tolerance. , 2016, , 78-82.		0
104	Title is missing!. , 2020, 16, e1008665.		0
105	Title is missing!. , 2020, 16, e1008665.		0
106	Title is missing!. , 2020, 16, e1008665.		0
107	Title is missing!. , 2020, 16, e1008665.		0