

David Nemazee

List of Publications by Year in descending order

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107
papers

12,148
citations

38742

50
h-index

31849

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. <i>Science</i> , 2020, 369, 956-963.	12.6	1,287
2	Rational HIV Immunogen Design to Target Specific Germline B Cell Receptors. <i>Science</i> , 2013, 340, 711-716.	12.6	680
3	Adjuvant-Enhanced Antibody Responses in the Absence of Toll-Like Receptor Signaling. <i>Science</i> , 2006, 314, 1936-1938.	12.6	545
4	Broad neutralization of SARS-related viruses by human monoclonal antibodies. <i>Science</i> , 2020, 369, 731-736.	12.6	534
5	Priming a broadly neutralizing antibody response to HIV-1 using a germline-targeting immunogen. <i>Science</i> , 2015, 349, 156-161.	12.6	358
6	Peripheral deletion of self-reactive B cells. <i>Nature</i> , 1991, 354, 308-311.	27.8	348
7	Mechanisms of central tolerance for B cells. <i>Nature Reviews Immunology</i> , 2017, 17, 281-294.	22.7	316
8	Receptor editing in lymphocyte development and central tolerance. <i>Nature Reviews Immunology</i> , 2006, 6, 728-740.	22.7	310
9	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. <i>Science</i> , 2021, 373, 818-823.	12.6	309
10	Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate. <i>Science</i> , 2020, 370, 1089-1094.	12.6	290
11	Broad and potent activity against SARS-like viruses by an engineered human monoclonal antibody. <i>Science</i> , 2021, 371, 823-829.	12.6	285
12	Contribution of Receptor Editing to the Antibody Repertoire. <i>Science</i> , 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. <i>Immunity</i> , 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. <i>Immunity</i> , 1997, 7, 765-775.	14.3	268
15	V(D)J Recombination in Mature B Cells: A Mechanism for Altering Antibody Responses. <i>Science</i> , 1997, 278, 298-301.	12.6	248
16	Revising B Cell Receptors. <i>Journal of Experimental Medicine</i> , 2000, 191, 1813-1818.	8.5	239
17	Tailored Immunogens Direct Affinity Maturation toward HIV Neutralizing Antibodies. <i>Cell</i> , 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. <i>Nature Communications</i> , 2021, 12, 2938.	12.8	219

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19	Developmental Regulation of B Lymphocyte Immune Tolerance Compartmentalizes Clonal Selection from Receptor Selection. <i>Cell</i> , 1998, 92, 173-182.	28.9	214
20	Receptor Selection in B and T Lymphocytes. <i>Annual Review of Immunology</i> , 2000, 18, 19-51.	21.8	206
21	Polyspecificity of T cell and B cell receptor recognition. <i>Seminars in Immunology</i> , 2007, 19, 216-224.	5.6	194
22	Receptor Editing Occurs Frequently during Normal B Cell Development. <i>Journal of Experimental Medicine</i> , 1998, 188, 1231-1238.	8.5	179
23	BCR Ligation Induces Receptor Editing in IgM+IgD ⁺ Bone Marrow B Cells In Vitro. <i>Immunity</i> , 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. <i>Journal of Experimental Medicine</i> , 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. <i>Journal of Experimental Medicine</i> , 2010, 207, 173-187.	8.5	150
26	Presenting native-like trimeric HIV-1 antigens with self-assembling nanoparticles. <i>Nature Communications</i> , 2016, 7, 12041.	12.8	146
27	High-Density Array of Well-Ordered HIV-1 Spikes on Synthetic Liposomal Nanoparticles Efficiently Activate B Cells. <i>Cell Reports</i> , 2016, 15, 1986-1999.	6.4	127
28	Enforced Bcl-2 Expression Inhibits Antigen-mediated Clonal Elimination of Peripheral B Cells in an Antigen Dose-dependent Manner and Promotes Receptor Editing in Autoreactive, Immature B Cells. <i>Journal of Experimental Medicine</i> , 1997, 186, 1513-1522.	8.5	123
29	The microRNA miR-148a functions as a critical regulator of B cell tolerance and autoimmunity. <i>Nature Immunology</i> , 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. <i>Science Translational Medicine</i> , 2022, 14, eabi9215.	12.4	123
31	V(D)J recombinase induction in splenic B lymphocytes is inhibited by antigen-receptor signalling. <i>Nature</i> , 1998, 394, 292-295.	27.8	112
32	Broadly neutralizing antibodies target the coronavirus fusion peptide. <i>Science</i> , 2022, 377, 728-735.	12.6	111
33	Immune Tolerance Negatively Regulates B Cells in Knock-In Mice Expressing Broadly Neutralizing HIV Antibody 4E10. <i>Journal of Immunology</i> , 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. <i>Journal of Immunology</i> , 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. <i>Journal of Experimental Medicine</i> , 2009, 206, 2271-2284.	8.5	91
36	PLD3 and PLD4 are single-stranded acid exonucleases that regulate endosomal nucleic-acid sensing. <i>Nature Immunology</i> , 2018, 19, 942-953.	14.5	88

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37	Regulation of the B Cell Receptor Repertoire and Self-Reactivity by BAFF. <i>Journal of Immunology</i> , 2010, 185, 4128-4136.	0.8	85
38	The P4-type ATPase ATP11C is essential for B lymphopoiesis in adult bone marrow. <i>Nature Immunology</i> , 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. <i>Immunity</i> , 2005, 22, 519-531.	14.3	80
40	Bispecific antibodies targeting distinct regions of the spike protein potentially neutralize SARS-CoV-2 variants of concern. <i>Science Translational Medicine</i> , 2021, 13, eabj5413.	12.4	79
41	HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018, 4, eaau6769.	10.3	75
42	Antigen receptor affinity and the sensitivity of self-tolerance. <i>Trends in Immunology</i> , 1996, 17, 25-29.	7.5	74
43	A VH11V9 B Cell Antigen Receptor Drives Generation of CD5+ B Cells Both In Vivo and In Vitro. <i>Journal of Immunology</i> , 2000, 164, 4586-4593.	0.8	72
44	Skewed Primary IgH Repertoire and VDJ Joining in C57BL/6 Mice: Implications for Recombination Accessibility and Receptor Editing. <i>Journal of Immunology</i> , 2012, 188, 2305-2315.	0.8	71
45	T Cell-Independent Rescue of B Lymphocytes from Peripheral Immune Tolerance. <i>Science</i> , 2000, 287, 2501-2503.	12.6	69
46	Reprogramming the antigen specificity of B cells using genome-editing technologies. <i>ELife</i> , 2019, 8, .	6.0	69
47	Antigen receptor selection by editing or downregulation of V(D)J recombination. <i>Current Opinion in Immunology</i> , 2003, 15, 182-189.	5.5	68
48	Regulation of B-cell development and tolerance by different members of the miR-17-92 family microRNAs. <i>Nature Communications</i> , 2016, 7, 12207.	12.8	65
49	An immunoglobulin C μ -reactive single chain antibody fusion protein induces tolerance through receptor editing in a normal polyclonal immune system. <i>Journal of Experimental Medicine</i> , 2005, 201, 817-828.	8.5	61
50	Immunogenicity of RNA Replicons Encoding HIV Env Immunogens Designed for Self-Assembly into Nanoparticles. <i>Molecular Therapy</i> , 2019, 27, 2080-2090.	8.2	58
51	Commercial Serology Assays Predict Neutralization Activity against SARS-CoV-2. <i>Clinical Chemistry</i> , 2021, 67, 404-414.	3.2	58
52	Anti-HIV B Cell Lines as Candidate Vaccine Biosensors. <i>Journal of Immunology</i> , 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. <i>PLoS Pathogens</i> , 2020, 16, e1009089.	4.7	55
54	Receptor editing and commitment in B lymphocytes. <i>Current Opinion in Immunology</i> , 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. <i>PLoS Pathogens</i> , 2020, 16, e1008665.	4.7	52
56	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection. <i>Cell Host and Microbe</i> , 2021, 29, 806-818.e6.	11.0	49
57	Efficient Peripheral Clonal Elimination of B Lymphocytes in MRL/lpr Mice Bearing Autoantibody Transgenes. <i>Journal of Experimental Medicine</i> , 1998, 188, 909-917.	8.5	46
58	The scope of receptor editing and its association with autoimmunity. <i>Current Opinion in Immunology</i> , 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. <i>Immunity</i> , 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. <i>Journal of Biological Chemistry</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Journal of Immunology</i> , 2013, 191, 3179-3185.	0.8	41
63	Vaccine elicitation of HIV broadly neutralizing antibodies from engineered B cells. <i>Nature Communications</i> , 2020, 11, 5850.	12.8	38
64	Receptor editing and genetic variability in human autoreactive B cells. <i>Journal of Experimental Medicine</i> , 2016, 213, 93-108.	8.5	37
65	Reduced receptor editing in lupus-prone MRL/lpr mice. <i>Journal of Experimental Medicine</i> , 2007, 204, 2853-2864.	8.5	36
66	Role of receptor editing and revision in shaping the B and T lymphocyte repertoire. <i>Life Sciences</i> , 2001, 69, 1105-1113.	4.3	35
67	A broad and potent neutralization epitope in SARS-related coronaviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	34
68	The Bacterial Peptidoglycan-Sensing Molecules NOD1 and NOD2 Promote CD8+Thymocyte Selection. <i>Journal of Immunology</i> , 2017, 198, 2649-2660.	0.8	31
69	Paucity of V-D-D-J Rearrangements and VH Replacement Events in Lupus Prone and Nonautoimmune TdT ^{hi} /â” and TdT ⁺ /+ Mice. <i>Journal of Immunology</i> , 2006, 177, 1120-1128.	0.8	29
70	In vivo engineered B cells secrete high titers of broadly neutralizing anti-HIV antibodies in mice. <i>Nature Biotechnology</i> , 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. <i>European Journal of Immunology</i> , 2000, 30, 689-696.	2.9	25
72	Deletion of IgG-Switched Autoreactive B Cells and Defects in Faslpr</i> Lupus Mice. <i>Journal of Immunology</i> , 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. <i>Journal of Immunology</i> , 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. <i>Journal of Applied Laboratory Medicine</i> , 2021, 6, 1109-1122.	1.3	24
75	MicroRNA control of B cell tolerance, autoimmunity and cancer. <i>Seminars in Cancer Biology</i> , 2020, 64, 102-107.	9.6	23
76	A mutation of <i>Ikbkg</i> causes immune deficiency without impairing degradation of I κ B β . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3046-3051.	7.1	21
77	Cleavage of DNA and RNA by PLD3 and PLD4 limits autoinflammatory triggering by multiple sensors. <i>Nature Communications</i> , 2021, 12, 5874.	12.8	21
78	Tolerance-induced receptor selection: scope, sensitivity, locus specificity, and relationship to lymphocyte-positive selection. <i>Immunological Reviews</i> , 2004, 197, 219-230.	6.0	19
79	Peripheral B Cell Tolerance and Function in Transgenic Mice Expressing an IgD Superantigen. <i>Journal of Immunology</i> , 2010, 184, 4143-4158.	0.8	19
80	Suppression of IgE B Cells and IgE Binding to Fc μ RI by Gene Therapy with Single-Chain Anti-IgE. <i>Journal of Immunology</i> , 2009, 182, 8110-8117.	0.8	18
81	2G12-Expressing B Cell Lines May Aid in HIV Carbohydrate Vaccine Design Strategies. <i>Journal of Virology</i> , 2013, 87, 2234-2241.	3.4	18
82	Generation of T follicular helper cells <i>in vitro</i> : requirement for B cell receptor cross-linking and cognate B and T cell interaction. <i>Immunology</i> , 2018, 153, 214-224.	4.4	18
83	Liver-expressed Ig μ superantigen induces tolerance of polyclonal B cells by clonal deletion not to receptor editing. <i>Journal of Experimental Medicine</i> , 2011, 208, 617-629.	8.5	17
84	A pandemic-enabled comparison of discovery platforms demonstrates a naïve antibody library can match the best immune-sourced antibodies. <i>Nature Communications</i> , 2022, 13, 462.	12.8	17
85	Split Tolerance in Peripheral B Cell Subsets in Mice Expressing a Low Level of Ig μ -Reactive Ligand. <i>Journal of Immunology</i> , 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 Ig μ -reactive macroself antigen. <i>European Journal of Immunology</i> , 2006, 36, 985-996.	2.9	15
87	Detection and activation of HIV broadly neutralizing antibody precursor B cells using anti-idiotypes. <i>Journal of Experimental Medicine</i> , 2019, 216, 2331-2347.	8.5	13
88	Anti-laminin Reactivity and Glomerular Immune Deposition by <i>in vitro</i> Recombinant Antibodies. <i>Autoimmunity</i> , 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. <i>Blood</i> , 2019, 134, 776-781.	1.4	12
90	PLD3 and spinocerebellar ataxia. <i>Brain</i> , 2018, 141, e78-e78.	7.6	11

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91	Natural history of MZ B cells. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	11
92	Role of B Cell Antigen Receptor in Regulation of V(D)J Recombination and Cell Survival. <i>Immunologic Research</i> , 2000, 21, 259-264.	2.9	10
93	Can receptor editing play an important role in normal B-cell development?. <i>Journal of Autoimmunity</i> , 1996, 9, 259-261.	6.5	9
94	A Rapid Assay for SARS-CoV-2 Neutralizing Antibodies That Is Insensitive to Antiretroviral Drugs. <i>Journal of Immunology</i> , 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. <i>Frontiers in Immunology</i> , 2020, 11, 431.	4.8	4
96	Receptor editing: Genetic reprogramming of autoreactive lymphocytes. <i>Cell Biochemistry and Biophysics</i> , 1999, 31, 81-88.	1.8	3
97	Haplotype exclusion and receptor editing: irreconcilable differences?. <i>Seminars in Immunology</i> , 2002, 14, 191-198.	5.6	3
98	Do B Cells Take Advantage of 'Missing Self' _{1/2} Recognition?. , 2002, 6, 245-264.		3
99	Prediabetes Induced by a Single Autoimmune B Cell Clone. <i>Frontiers in Immunology</i> , 2020, 11, 1073.	4.8	3
100	Peripheral B lymphocyte tolerance. <i>Keio Journal of Medicine</i> , 2004, 53, 151-158.	1.1	2
101	Role of RS/DE 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. <i>Current Topics in Microbiology and Immunology</i> , 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