Melvin Cohn

List of Publications by Year
in descending order

139 papers	5,775 citations	126708 33 h-index	79541 73 g-index
145 all docs	145 docs citations	145 times ranked	1866 citing authors

#	Article	IF	Citations
1	A Theory of Self-Nonself Discrimination: Paralysis and induction involve the recognition of one and two determinants on an antigen, respectively. Science, 1970, 169, 1042-1049.	6.0	1,603
2	Variability in the Lambda Light Chain Sequences of Mouse Antibody. Nature, 1970, 228, 1045-1047.	13.7	538
3	Studies on the induced synthesis of Î²-galactosidase in Escherichia coli: The kinetics and mechanism of sulfur incorporation. Biochimica Et Biophysica Acta, 1955, 16, 99-116.	1.3	292
4	The Protection: The Unit of Humoral Immunity Selected by Evolution. Immunological Reviews, 1990, 115, 7-147.	2.8	230
5	Minimal Model for the Mechanism of Antibody Induction and Paralysis by Antigen. Nature, 1968, 220, 444-448.	13.7	151
6	Immunoglobulins. Annual Review of Biochemistry, 1967, 36, 365-406.	5.0	147
7	THE USE OF BACTERIAL LIPOPOLYSACCHARIDES TO SHOW THAT TWO SIGNALS ARE REQUIRED FOR THE INDUCTION OF ANTIBODY SYNTHESIS. Journal of Experimental Medicine, 1973, 138, 699-714.	4.2	139
8	The E-T (Elephant-Tadpole) paradox necessitates the concept of a unit of b-cell function: The protecton. Molecular Immunology, 1987, 24, 675-697.	1.0	123
9	Tumorigenicity and lysis by natural killers.. Journal of Experimental Medicine, 1981, 153, 89-106.	4.2	96
10	The Wisdom of Hindsight. Annual Review of Immunology, 1994, 12, 1-62.	9.5	96
11	T-cell inhibition of humoral responsiveness. Cellular Immunology, 1978, 39, 125-153.	1.4	83
12	Suppression of and complementation among mutants of the regulatory gene of the lactose operon of Escherichia coli. Journal of Molecular Biology, 1965, 14, 300-302.	2.0	73
13	A Short History of Time and Space in Immune Discrimination. Scandinavian Journal of Immunology, 1996, 44, 544-548.	1.3	68
14	II. Bacteriological Reviews, 1959, 23, 213-223.	7.7	67
15	On a regulatory gene controlling the expression of the murine lambda1 light chain.. Journal of Experimental Medicine, 1978, 148, 1122-1136.	4.2	64
16	Degeneracy, mimicry and crossreactivity in immune recognition. Molecular Immunology, 2005, 42, 651-655.	1.0	58
17	The T-cell receptor mediating restrictive recognition of antigen. Cell, 1983, 33, 657-669.	13.5	57
18	The â€˜completeâ€™ idiotype network is an absurd immune system. Trends in Immunology, 1986, 7, 100-101.	7.5	56

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19	The Self-Nonself Discrimination: A One- or Two-Signal Mechanism?. Scandinavian Journal of Immunology, 1975, 4, 1-24.	1.3	54
20	Reflections on the clonal-selection theory. Nature Reviews Immunology, 2007, 7, 823-830.	10.6	53
21	ANTIBODY FORMATION BY RABBIT LYMPH NODE CELLS. I. SINGLE CELL RESPONSES TO SEVERAL ANTIGENS. Journal of Immunology, 1964, 92, 335-45.	0.4	50
22	The self/nonself discrimination: reconstructing a cabbage from sauerkraut. Research in Immunology, 1992, 143, 323-334.	0.9	48
23	Whither T-suppressors: if they didnâ€™t exist would we have to invent them?. Cellular Immunology, 2004, 227, 81-92.	1.4	44
24	Conversations with Niels Kaj Jerne on immune regulation: Associative versus network recognition. Cellular Immunology, 1981, 61, 425-436.	1.4	43
25	A computerized model for the self-non-self discrimination at the level of the Th (Th genesis). II. The behavior of the system upon encounter with non-self antigens. International Immunology, 2003, 15, 593-609.	1.8	43
26	A New Concept of Immune Specificity Emerges from a Consideration of the Selfâ€“Nonself Discrimination. Cellular Immunology, 1997, 181, 103-108.	1.4	42
27	A minimal model for the self-nonself discrimination: a return to the basics. Seminars in Immunology, 2000, 12, 189-195.	2.7	42
28	A computerized model for the self-non-self discrimination at the level of the Th (Th genesis). I. The origin of 'primer' effector Th cells. International Immunology, 2002, 14, 1105-1112.	1.8	42
29	What roles do regulatory T cells play in the control of the adaptive immune response?. International Immunology, 2008, 20, 1107-1118.	1.8	40
30	The immune system: a weapon of mass destruction invented by evolution to even the odds during the war of the DNAs. Immunological Reviews, 2002, 185, 24-38.	2.8	39
31	The common sense of the self-nonself discrimination. Seminars in Immunopathology, 2005, 27, 3-17.	4.0	37
32	On the Genetic Dissection of a Specific Humoral Immune Response to Â(1,3) Dextran. Cold Spring Harbor Symposia on Quantitative Biology, 1977, 41, 743-748.	2.0	37
33	The Standard Model of T-Cell Receptor Function: A Critical Reassessment. Scandinavian Journal of Immunology, 1999, 49, 570-577.	1.3	35
34	Editorial introduction. Seminars in Immunology, 2000, 12, 159-162.	2.7	34
35	Tritope model of restrictive recognition by the TCR. Trends in Immunology, 2003, 24, 127-131.	2.9	34
36	If the immune repertoire evolved to be large, random, and somatically generated, thenâ€¦. Cellular Immunology, 2002, 216, 15-22.	1.4	33

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37	A Biological Context for the Self-Nonself Discrimination and the Regulation of Effector Class by the Immune System. Immunologic Research, 2005, 31, 133-150.	1.3	33
38	Cellular automataâ€based modeling program: synthetic immune system. Immunological Reviews, 2007, 216, 198-212.	2.8	32
39	The Molecular Biology of Expectation. , 1968, , 671-715.		29
40	The proportion of B-cell subsets expressing Îº and Î» light chains changes following antigenic selection. Trends in Immunology, 1995, 16, 141-144.	7.5	28
41	On the logic of restrictive recognition of peptide by the T-cell antigen receptor. Immunologic Research, 2011, 50, 49-68.	1.3	28
42	ANTIBODY FORMATION BY RABBIT LYMPH NODE CELLS. II. FURTHER OBSERVATIONS ON THE BEHAVIOR OF SINGLE ANTIBODY-PRODUCING CELLS WITH RESPECT TO THEIR SYNTHETIC CAPACITY AND MORPHOLOGY. Journal of Immunology, 1964, 92, 346-55.	0.4	28
43	The concept of functional idiotype network for immune regulation mocks all and comforts none. Annales De L'Institut Pasteur Immunologie, 1986, 137, 64-76.	0.9	27
44	The Tritope Model for restrictive recognition of antigen by T-cellsI. What assumptions about structure are needed to explain function?. Molecular Immunology, 2005, 42, 1419-1443.	1.0	27
45	The evolutionary context for a selfâ€“nonself discrimination. Cellular and Molecular Life Sciences, 2010, 67, 2851-2862.	2.4	24
46	In vivo surveillance of tumorigenic cells transformed in vitro. Nature, 1982, 299, 169-171.	13.7	23
47	Has Immunoglobulin Come to a Sticky End?. Scandinavian Journal of Immunology, 1991, 33, 99-109.	1.3	21
48	A theory of the ontogeny of the chicken humoral immune system: The consequences of diversification by gene hyperconversion and its extension to rabbit. Research in Immunology, 1993, 144, 422-446.	0.9	21
49	An in depth analysis of the concept of â€œpolyspecificityâ€•assumed to characterize TCR/BCR recognition. Immunologic Research, 2008, 40, 128-147.	1.3	21
50	Conceptualizing the Self-Nonself Discrimination by the Vertebrate Immune System. , 2007, , 375-398.		20
51	The Tritope Model for restrictive recognition of antigen by T-cells. Molecular Immunology, 2008, 45, 632-652.	1.0	20
52	What are the commonalities governing the behavior of humoral immune recognitive repertoires?. Developmental and Comparative Immunology, 2006, 30, 19-42.	1.0	19
53	A Rationalized Set of Default Postulates that Permit a Coherent Description of the Immune System Amenable to Computer Modeling. Scandinavian Journal of Immunology, 2008, 68, 371-380.	1.3	19
54	On the opposing views of the selfâ€“nonself discrimination by the immune system. Immunology and Cell Biology, 2009, 87, 113-119.	1.0	19

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55	How does the immune response get started?. Cellular Immunology, 2009, 254, 91-93.	1.4	18
56	Two signal models of lymphocyte activation?. Trends in Immunology, 1993, 14, 235-236.	7.5	17
57	Some Thoughts on the Response to Antigens that are Effector Tâ€Helper Independent (â€˜Thymus) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	17
58	Dissecting the two models of TCR structureâ€“function relationships. Immunologic Research, 2016, 64, 795-803.	1.3	17
59	Characterization of an Inhibitory Allogeneic Effect on Humoral Responsiveness In Vitro. Scandinavian Journal of Immunology, 1977, 6, 39-58.	1.3	16
60	An alternative to current thinking about positive selection, negative selection and activation of T cells. Immunology, 2004, 111, 375-380.	2.0	16
61	Why Aire? Compensating for late bloomers. European Journal of Immunology, 2009, 39, 2969-2972.	1.6	16
62	Cutting edge: terra firma: a retreat from "danger". Journal of Immunology, 1996, 157, 4273-6.	0.4	16
63	To be or Not to be Ridded? - That is the Question Addressed by the Associative Antigen Recognition Model*â€. Scandinavian Journal of Immunology, 2002, 55, 318-323.	1.3	15
64	What is so special about thinking; after all, we all do it!. Experimental and Molecular Pathology, 2012, 93, 354-364.	0.9	15
65	ANTIBODY FORMATION BY RABBIT LYMPH NODE CELLS. V. CELLULAR HETEROGENEITY IN THE PRODUCTION OF ANTIBODY TO T5. Journal of Immunology, 1964, 93, 94-5.	0.4	15
66	A stepwise model of polyreactivity of the T cell antigen-receptor (TCR): its impact on the selfâ€“nonself discrimination and on related observations (receptor editing, anergy, dual receptor cells). Cellular and Molecular Life Sciences, 2014, 71, 2033-2045.	2.4	14
67	The Priming of Cytotoxic T-Cell Precursors is Strictly Helper T Cell-Dependent. Scandinavian Journal of Immunology, 1992, 35, 621-626.	1.3	13
68	Distinguishing the tritope from the interaction antigen models. Trends in Immunology, 2004, 25, 8-9.	2.9	13
69	Quantitative modeling of immune responses. Immunological Reviews, 2007, 216, 5-8.	2.8	13
70	At the feet of the master: the search for universalities. Divining the evolutionary selection pressures that resulted in an immune system. Cytogenetic and Genome Research, 1998, 80, 54-60.	0.6	12
71	A hypothesis accounting for the paradoxical expression of the D gene segmentin the BCR and the TCR. European Journal of Immunology, 2008, 38, 1779-1787.	1.6	12
72	ANTIBODY FORMATION BY RABBIT LYMPH NODE CELLS.III. THE CONTROLS FOR MICRODROP AND MICROPIPET EXPERIMENTS. Journal of Immunology, 1964, 92, 356-71.	0.4	12

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73	The challenges of chickens and rabbits to immunology. Research in Immunology, 1993, 144, 421.	0.9	11
74	The discussion with Jacques Miller: illustrating the limitations of pure empiricism. Immunology and Cell Biology, 2009, 87, 435-437.	1.0	11
75	Ten experiments that would make a difference in understanding immune mechanisms. Cellular and Molecular Life Sciences, 2012, 69, 405-412.	2.4	11
76	Autoimmunity: Rationalizing possible pathways from initiation to disease. Journal of Theoretical Biology, 2015, 375, 40-51.	0.8	11
77	ANTIBODY FORMATION BY RABBIT LYMPH NODE CELLS. IV. THE DETAILED METHODS FOR MEASURING ANTIBODY SYNTHESIS BY INDIVIDUAL CELLS, THE KINETICS OF ANTIBODY FORMATION BY RABBITS AND THE PROPERTIES OF CELL SUSPENSIONS. Journal of Immunology, 1964, 92, 372-90.	0.4	11
78	What is the selective pressure that maintains the gene loci encoding the antigen receptors of T and B cells? A hypothesis. Immunology and Cell Biology, 1992, 70, 397-404.	1.0	10
79	Haplotype exclusion: the solution to a problem in natural selection. Seminars in Immunology, 2002, 14, 153-162.	2.7	10
80	Meanderings into the Regulation of Effector Class by the Immune System: Derivation of the Trauma Model. Scandinavian Journal of Immunology, 2012, 76, 77-88.	1.3	10
81	â€œAllorestrictionâ€•should be distinguished from â€œalloreactivityâ€• European Journal of Immunology, 2012, 42, 39-44.	1.6	10
82	Evidence that cytotoxic T cells and natural cytotoxic cells use different lytic mechanisms to lyse the same targets. European Journal of Immunology, 1983, 13, 433-436.	1.6	9
83	What determines the ƙ/Î» ratio. Research in Immunology, 1992, 143, 803.	0.9	9
84	THE LOGIC OF CELL INTERACTIONS IN DETERMINING IMMUNE RESPONSIVENESS. , 1975, , 79-107.		9
85	Comments by M. Cohn, on the Forum Â«Is the immune system a functional idiotypic network?. Annales De L'Institut Pasteur Immunologie, 1986, 137, 173-188.	0.9	8
86	The Twoâ€Signal Model and â€˜Selfâ€™â€Reactivity: Are They Really Compatible? A Reply to Faro & Carneiro. Scandinavian Journal of Immunology, 1996, 43, 1-5.	1.3	8
87	The essential self: a commentary on Silverstein and Rose "On the mystique of the immunological self". Immunological Reviews, 1997, 159, 214-217.	2.8	8
88	If the 'Adaptive' Immune System Can Recognize a Significant Portion of the Pathogenic Universe to Which the 'Innate' Immune System is Blind, Then.... Scandinavian Journal of Immunology, 2004, 60, 1-2.	1.3	8
89	On a key postulate of T-cell receptor restrictive function: the V-gene loci act as a single pool encoding recognition of the polymorphic alleles of the species major histocompatibility complex. Immunology, 2007, 120, 140-2.	2.0	8
90	A Short History of Time and Space in Immune Discrimination: Reply to the Commentaries. Scandinavian Journal of Immunology, 1997, 46, 113-116.	1.3	7

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91	On the logic of positive selection. Immunology, 2006, 117, 452-453.	2.0	7
92	Two unresolved problems facing models of the Selfâ€“Nonself discrimination. Journal of Theoretical Biology, 2015, 387, 31-38.	0.8	7
93	Does complexity belie a simple decisionâ€”on the Efroni and Cohen critique of the minimal model for a selfâ€“nonself discrimination. Cellular Immunology, 2003, 221, 138-142.	1.4	6
94	A Commentary on the Zinkernagel-Hengartner 'Credo 2004'. Scandinavian Journal of Immunology, 2005, 62, 187-194.	1.3	6
95	On â€˜Credo 2004â€™ as Viewed Under the â€˜Development-Contextâ€™ Model of Colin Anderson. Scandinavian Journal of Immunology, 2006, 64, 97-103.	1.3	6
96	Does the signal for the activation of T cells originate from the antigen-presenting cell or the effector T-helper?. Cellular Immunology, 2006, 241, 1-6.	1.4	6
97	Musings About Regulation by Tâ€Suppressors: A Response to the Commentary by Kristofor Ellestad on â€˜Meanderings into the Regulation of Effector Class by the Immune System: Derivation of the Trauma Modelâ€™. Scandinavian Journal of Immunology, 2012, 76, 92-98.	1.3	6
98	Cancer: A Problem in Somatic Cell Evolution. , 1980, 11, 1-79.		6
99	Antibody Diversification: the Somatic Mutation Model Revisited. , 1973, , 574-592.		6
100	What does the T-cell receptor recognize when it docks on an MHC-encoded restricting element?. Molecular Immunology, 2008, 45, 3264-3267.	1.0	5
101	Challenging The Tritope Model of T cell Receptor Structureâ€“Function Relationships with Classical Data on â€˜Superâ€™ and â€˜Alloâ€<scp>MHC</scp>â€™ Antigens. Scandinavian Journal of Immunology, 2013, 78, 313-324.	1.3	5
102	Thoughts Engendered by Bretscher's Twoâ€Step, Twoâ€Signal Model for a Peripheral Selfâ€“Nonâ€Self Discrimination and the Origin of Primer Effector T Helpers. Scandinavian Journal of Immunology, 2015, 81, 87-95.	1.3	5
103	What would Tregâ€cell biology look like when viewed from a rationalized perspective?. European Journal of Immunology, 2015, 45, 3002-3009.	1.6	5
104	Thoughts on Positive Selection in Thymus. Scandinavian Journal of Immunology, 2016, 83, 303-310.	1.3	5
105	Learning from a contemporary history of immunology. Immunologic Research, 2017, 65, 573-591.	1.3	5
106	Analysis of immune surveillance of sequentially derived cell lines that differ in their tumorigenic potential. Journal of the National Cancer Institute, 1985, 74, 1025-30.	3.0	5
107	The self-nonself discrimination in the context of function. , 1998, 19, 475-484.		4
108	A Commentary on the Zinkernagel-Hengartner 'Credo 2004'. Scandinavian Journal of Immunology, 2005, 61, 477-484.	1.3	4

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109	A Reply to Dembic: On an End to the Beginning of Misunderstanding the Immune Response. Scandinavian Journal of Immunology, 2009, 69, 302-305.	1.3	4
110	On the Critique by Colin Anderson of â€˜A Reply to Dembic: On an End to the Beginning of Misâ€Understanding the Immune Responseâ€™. Scandinavian Journal of Immunology, 2009, 70, 1-9.	1.3	4
111	Reply to Colin Andersonâ€™s commentary on â€œTen experiments that would make a difference in understanding immune mechanismsâ€. Cellular and Molecular Life Sciences, 2012, 69, 417-422.	2.4	4
112	Contemplating Bretscher's View that the Tritope Model is â€˜Implausibleâ€™. Scandinavian Journal of Immunology, 2016, 84, 139-145.	1.3	4
113	Core principles characterizing immune function. European Journal of Immunology, 2017, 47, 35-40.	1.6	4
114	IDIOTYPE NETWORK VIEWS OF IMMUNE REGULATION: FOR WHOM THE BELL TOLLS. , 1986, , 321-399.		4
115	An introduction to â€œLe Papâ€. Cellular Immunology, 1982, 66, 11-16.	1.4	3
116	Commentary II: A commentary on â€œhow many signals are enough?â€•as analyzed by N. R. StC. Sinclair. Cellular Immunology, 1990, 130, 213-223.	1.4	3
117	Response to Dembic: Does the Immune System Reject the Harmful, Protect the Useful and Neglect the Rest?. Scandinavian Journal of Immunology, 2004, 60, 6-7.	1.3	3
118	The Institut Pasteur attic dwellers: their origins, their paths to discovery. Research in Microbiology, 2014, 165, 318-324.	1.0	3
119	Giving Context to Nonâ€selfâ€marker Theories of Immune Responsiveness. Scandinavian Journal of Immunology, 2017, 86, 124-129.	1.3	3
120	Somatic diversification of the B cell repertoire requires two cell subsets. Scandinavian Journal of Immunology, 2018, 87, e12640.	1.3	3
121	The case for alleleâ€specific recognition by the TCR. Scandinavian Journal of Immunology, 2019, 90, e12790.	1.3	3
122	Is the immune system a functional idiotypic network?. , 1986, 137C, 173-88.		3
123	Commentary IV: We respond to each of Sinclair's points. Cellular Immunology, 1990, 130, 229-235.	1.4	2
124	On the Responses of Zinkernagel and Hengartner: An Invitation to Join the Fray. Scandinavian Journal of Immunology, 2005, 62, 202-205.	1.3	2
125	Rationalizing thymic selection for functional T-cells: A commentary. Cellular Immunology, 2015, 298, 83-87.	1.4	2
126	An observation that illustrates most T cell receptor structure-function relationships. Immunologic Research, 2017, 65, 1095-1098.	1.3	2

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127	The real â€œdangerâ€•lies in the failure to confront fundamentals. Scandinavian Journal of Immunology, 2018, 88, e12726.	1.3	2
128	<scp>TCR</scp>â€“<scp>pMHC</scp> interactions: Two peptide repertoiresâ€“one signal. Scandinavian Journal of Immunology, 2018, 88, e12700.	1.3	2
129	The biology of recognitive repertoires. Trends in Immunology, 2000, 21, 433-435.	7.5	1
130	A Commentary on a Workshop â€˜To Reveal the Foundational Concepts of Immune Regulationâ€™ (i.e.) Tj ETQq0 0 0 rgBT /Over	1.3	1
131	Signaling interactions predicted by the Tritope model of the TCR. Immunologic Research, 2017, 65, 977-981.	1.3	1
132	Rationalizing the path to a universal graft recipient. Immunologic Research, 2018, 66, 332-335.	1.3	1
133	Why rethink the structure-function relationships regulating TCR behavior?. Current Trends in Immunology, 2009, 10, 105-111.	4.0	1
134	T lymphoma variants with specifically altered growth in semi-solid media. International Journal of Cancer, 1983, 32, 641-643.	2.3	0
135	Third round commentary for Ratcliffe and Pike. Seminars in Immunology, 2002, 14, 235-236.	2.7	0
136	A Commentary on the Zinkernagel-Hengartner 'Credo 2004'. Scandinavian Journal of Immunology, 2005, 62, 183-183.	1.3	0
137	On the Responses of Zinkernagel and Hengartner: An Invitation to Join the Fray. Scandinavian Journal of Immunology, 2005, 62, 202-205.	1.3	0
138	History of the antibody workshops. Immunologic Research, 2018, 66, 1-5.	1.3	0
139	Exploring the elements for a successful immune offense against cancer. Experimental and Molecular Pathology, 2018, 105, 213-215.	0.9	0