

P Anton Van Der Merwe

List of Publications by Year in descending order

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49
papers

5,009
citations

136740

32
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197535

49
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66
all docs

66
docs citations

66
times ranked

4989
citing authors

#	ARTICLE	IF	CITATIONS
1	The kinetic-segregation model: TCR triggering and beyond. <i>Nature Immunology</i> , 2006, 7, 803-809.	7.0	470
2	MOLECULAR INTERACTIONS MEDIATING T CELL ANTIGEN RECOGNITION. <i>Annual Review of Immunology</i> , 2003, 21, 659-684.	9.5	454
3	Mechanisms for T cell receptor triggering. <i>Nature Reviews Immunology</i> , 2011, 11, 47-55.	10.6	388
4	Survival of FimH-expressing enterobacteria in macrophages relies on glycolipid traffic. <i>Nature</i> , 1997, 389, 636-639.	13.7	287
5	Effects of common mutations in the SARS-CoV-2 Spike RBD and its ligand, the human ACE2 receptor on binding affinity and kinetics. <i>ELife</i> , 2021, 10, .	2.8	267
6	Cytoskeletal polarization and redistribution of cell-surface molecules during T cell antigen recognition. <i>Seminars in Immunology</i> , 2000, 12, 5-21.	2.7	264
7	Structural and kinetic basis for heightened immunogenicity of T cell vaccines. <i>Journal of Experimental Medicine</i> , 2005, 201, 1243-1255.	4.2	248
8	Dependence of T Cell Antigen Recognition on T Cell Receptor-Peptide MHC Confinement Time. <i>Immunity</i> , 2010, 32, 163-174.	6.6	214
9	The nature of molecular recognition by T cells. <i>Nature Immunology</i> , 2003, 4, 217-224.	7.0	203
10	CD8 β Endows CD8 with Efficient Coreceptor Function by Coupling T Cell Receptor/CD3 to Raft-associated CD8/p56lck Complexes. <i>Journal of Experimental Medicine</i> , 2001, 194, 1485-1495.	4.2	189
11	Integrins Form an Expanding Diffusional Barrier that Coordinates Phagocytosis. <i>Cell</i> , 2016, 164, 128-140.	13.5	163
12	Phenotypic models of T cell activation. <i>Nature Reviews Immunology</i> , 2014, 14, 619-629.	10.6	135
13	Dependence of T Cell Antigen Recognition on the Dimensions of an Accessory Receptor-Ligand Complex. <i>Journal of Experimental Medicine</i> , 1999, 190, 31-42.	4.2	109
14	Mutant Prolactin Receptor and Familial Hyperprolactinemia. <i>New England Journal of Medicine</i> , 2013, 369, 2012-2020.	13.9	106
15	Formation and function of the immunological synapse. <i>Current Opinion in Immunology</i> , 2002, 14, 293-298.	2.4	100
16	Analysis of cell-adhesion molecule interactions using surface plasmon resonance. <i>Current Opinion in Immunology</i> , 1996, 8, 257-261.	2.4	97
17	The large ectodomains of CD45 and CD148 regulate their segregation from and inhibition of ligated T-cell receptor. <i>Blood</i> , 2013, 121, 4295-4302.	0.6	93
18	Architecture of a minimal signaling pathway explains the T-cell response to a 1 million-fold variation in antigen affinity and dose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6630-E6638.	3.3	79

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19	Non-catalytic tyrosine-phosphorylated receptors. <i>Immunological Reviews</i> , 2012, 250, 258-276.	2.8	74
20	The NH ₂ -terminal domain of rat CD2 binds rat CD48 with a low affinity and binding does not require glycosylation of CD2. <i>European Journal of Immunology</i> , 1993, 23, 1373-1377.	1.6	73
21	Antigen Potency and Maximal Efficacy Reveal a Mechanism of Efficient T Cell Activation. <i>Science Signaling</i> , 2011, 4, ra39.	1.6	71
22	Molecular mechanisms involved in T cell receptor triggering. <i>Seminars in Immunology</i> , 2007, 19, 255-261.	2.7	70
23	TCR-pMHC kinetics under force in a cell-free system show no intrinsic catch bond, but a minimal encounter duration before binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16943-16948.	3.3	69
24	Kinetics and Mechanics of Two-Dimensional Interactions between T Cell Receptors and Different Activating Ligands. <i>Biophysical Journal</i> , 2012, 102, 248-257.	0.2	68
25	IMMUNOLOGY: The Immunological Synapse—a Multitasking System. <i>Science</i> , 2002, 295, 1479-1480.	6.0	65
26	SpyAvidin Hubs Enable Precise and Ultrastable Orthogonal Nanoassembly. <i>Journal of the American Chemical Society</i> , 2014, 136, 12355-12363.	6.6	62
27	An induced rebinding model of antigen discrimination. <i>Trends in Immunology</i> , 2014, 35, 153-158.	2.9	61
28	The discriminatory power of the T cell receptor. <i>ELife</i> , 2021, 10, .	2.8	52
29	Biomarkers of response to PD-1 pathway blockade. <i>British Journal of Cancer</i> , 2022, 126, 1663-1675.	2.9	52
30	Ultrasensitivity in Multisite Phosphorylation of Membrane-Anchored Proteins. <i>Biophysical Journal</i> , 2011, 100, 1189-1197.	0.2	49
31	Production of soluble T cell receptor heterodimers suitable for biophysical analysis of ligand binding. <i>Protein Science</i> , 1999, 8, 2418-2423.	3.1	46
32	Ca ²⁺ Release from the Endoplasmic Reticulum of NY-ESO-1-Specific T Cells Is Modulated by the Affinity of TCR and by the Use of the CD8 Coreceptor. <i>Journal of Immunology</i> , 2010, 184, 1829-1839.	0.4	36
33	A Subtle Role for Cd2 in T Cell Antigen Recognition. <i>Journal of Experimental Medicine</i> , 1999, 190, 1371-1374.	4.2	31
34	Late Arrival: Recruiting Coreceptors to the T Cell Receptor Complex. <i>Immunity</i> , 2011, 34, 1-3.	6.6	30
35	Homodimerization of the Lymph Vessel Endothelial Receptor LYVE-1 through a Redox-labile Disulfide Is Critical for Hyaluronan Binding in Lymphatic Endothelium. <i>Journal of Biological Chemistry</i> , 2016, 291, 25004-25018.	1.6	28
36	Transgene-encoded human CD2 acts in a dominant negative fashion to modify thymocyte selection signals in mice. <i>European Journal of Immunology</i> , 1996, 26, 2952-2963.	1.6	24

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37	Multisite Phosphorylation Modulates the T Cell Receptor ζ -Chain Potency but not the Switchlike Response. <i>Biophysical Journal</i> , 2016, 110, 1896-1906.	0.2	23
38	The contribution of major histocompatibility complex contacts to the affinity and kinetics of T cell receptor binding. <i>Scientific Reports</i> , 2016, 6, 35326.	1.6	18
39	Leukocyte adhesion: High-speed cells with ABS. <i>Current Biology</i> , 1999, 9, R419-R422.	1.8	14
40	MHC binding affects the dynamics of different T-cell receptors in different ways. <i>PLoS Computational Biology</i> , 2019, 15, e1007338.	1.5	13
41	T lymphocytes need less than 3 min to discriminate between peptide MHCs with similar TCR binding parameters. <i>European Journal of Immunology</i> , 2015, 45, 1635-1642.	1.6	12
42	Costimulation of IL-2 Production through CD28 Is Dependent on the Size of Its Ligand. <i>Journal of Immunology</i> , 2015, 195, 5432-5439.	0.4	12
43	A generic cell surface ligand system for studying cell-cell recognition. <i>PLoS Biology</i> , 2019, 17, e3000549.	2.6	11
44	Modeling costimulation. <i>Nature Immunology</i> , 2000, 1, 194-195.	7.0	10
45	Missense variants in human ACE2 strongly affect binding to SARS-CoV-2 Spike providing a mechanism for ACE2 mediated genetic risk in Covid-19: A case study in affinity predictions of interface variants. <i>PLoS Computational Biology</i> , 2022, 18, e1009922.	1.5	9
46	Why Do Some T Cell Receptor Cytoplasmic Domains Associate with the Plasma Membrane?. <i>Frontiers in Immunology</i> , 2012, 3, 29.	2.2	8
47	pyHVis3D: visualising molecular simulation deduced H-bond networks in 3D: application to T-cell receptor interactions. <i>Bioinformatics</i> , 2018, 34, 1941-1943.	1.8	6
48	Dephosphorylation accelerates the dissociation of ZAP70 from the T cell receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	6
49	CD8 Co-Receptor Enhances T-Cell Activation without Any Effect on Initial Attachment. <i>Cells</i> , 2021, 10, 429.	1.8	1