P Anton Van Der Merwe

List of Publications by Year
in descending order

49 papers	5,009 citations	136740 32 h-index	197535 49 g-index
66 all docs	66 docs citations	66 times ranked	4989 citing authors

#	Article	IF	Citations
1	Biomarkers of response to PD-1 pathway blockade. British Journal of Cancer, 2022, 126, 1663-1675.	2.9	52
2	Dephosphorylation accelerates the dissociation of ZAP70 from the T cell receptor. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
3	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. PLoS Computational Biology, 2022, 18, e1009922.	1.5	9
4	CD8 Co-Receptor Enhances T-Cell Activation without Any Effect on Initial Attachment. Cells, 2021, 10, 429.	1.8	1
5	The discriminatory power of the T cell receptor. ELife, 2021, 10, .	2.8	52
6	Effects of common mutations in the SARS-CoV-2 Spike RBD and its ligand, the human ACE2 receptor on binding affinity and kinetics. ELife, 2021, 10, .	2.8	267
7	TCRâ€“pMHC kinetics under force in a cell-free system show no intrinsic catch bond, but a minimal encounter duration before binding. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16943-16948.	3.3	69
8	MHC binding affects the dynamics of different T-cell receptors in different ways. PLoS Computational Biology, 2019, 15, e1007338.	1.5	13
9	A generic cell surface ligand system for studying cellâ€“cell recognition. PLoS Biology, 2019, 17, e3000549.	2.6	11
10	pyHVis3D: visualising molecular simulation deduced H-bond networks in 3D: application to T-cell receptor interactions. Bioinformatics, 2018, 34, 1941-1943.	1.8	6
11	Architecture of a minimal signaling pathway explains the T-cell response to a 1 million-fold variation in antigen affinity and dose. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6630-E6638.	3.3	79
12	Homodimerization of the Lymph Vessel Endothelial Receptor LYVE-1 through a Redox-labile Disulfide Is Critical for Hyaluronan Binding in Lymphatic Endothelium. Journal of Biological Chemistry, 2016, 291, 25004-25018.	1.6	28
13	The contribution of major histocompatibility complex contacts to the affinity and kinetics of T cell receptor binding. Scientific Reports, 2016, 6, 35326.	1.6	18
14	Multisite Phosphorylation Modulates the T Cell Receptor Î¶-Chain Potency but not the Switchlike Response. Biophysical Journal, 2016, 110, 1896-1906.	0.2	23
15	Integrins Form an Expanding Diffusional Barrier that Coordinates Phagocytosis. Cell, 2016, 164, 128-140.	13.5	163
16	T lymphocytes need less than 3 min to discriminate between peptide MHCs with similar TCRâ€binding parameters. European Journal of Immunology, 2015, 45, 1635-1642.	1.6	12
17	Costimulation of IL-2 Production through CD28 Is Dependent on the Size of Its Ligand. Journal of Immunology, 2015, 195, 5432-5439.	0.4	12
18	An induced rebinding model of antigen discrimination. Trends in Immunology, 2014, 35, 153-158.	2.9	61

#	Article	IF	Citations
19	Phenotypic models of T cell activation. Nature Reviews Immunology, 2014, 14, 619-629.	10.6	135
20	SpyAvidin Hubs Enable Precise and Ultrastable Orthogonal Nanoassembly. Journal of the American Chemical Society, 2014, 136, 12355-12363.	6.6	62
21	Mutant Prolactin Receptor and Familial Hyperprolactinemia. New England Journal of Medicine, 2013, 369, 2012-2020.	13.9	106
22	The large ectodomains of CD45 and CD148 regulate their segregation from and inhibition of ligated T-cell receptor. Blood, 2013, 121, 4295-4302.	0.6	93
23	Nonâ€catalytic tyrosineâ€phosphorylated receptors. Immunological Reviews, 2012, 250, 258-276.	2.8	74
24	Kinetics and Mechanics of Two-Dimensional Interactions between T Cell Receptors and Different Activating Ligands. Biophysical Journal, 2012, 102, 248-257.	0.2	68
25	Why Do Some T Cell Receptor Cytoplasmic Domains Associate with the Plasma Membrane?. Frontiers in Immunology, 2012, 3, 29.	2.2	8
26	Ultrasensitivity in Multisite Phosphorylation of Membrane-Anchored Proteins. Biophysical Journal, 2011, 100, 1189-1197.	0.2	49
27	Mechanisms for T cell receptor triggering. Nature Reviews Immunology, 2011, 11, 47-55.	10.6	388
28	Antigen Potency and Maximal Efficacy Reveal a Mechanism of Efficient T Cell Activation. Science Signaling, 2011, 4, ra39.	1.6	71
29	Late Arrival: Recruiting Coreceptors to the T Cell Receptor Complex. Immunity, 2011, 34, 1-3.	6.6	30
30	Dependence of T Cell Antigen Recognition on T Cell Receptor-Peptide MHC Confinement Time. Immunity, 2010, 32, 163-174.	6.6	214
31	Ca2+ Release from the Endoplasmic Reticulum of NY-ESO-1â€“Specific T Cells Is Modulated by the Affinity of TCR and by the Use of the CD8 Coreceptor. Journal of Immunology, 2010, 184, 1829-1839.	0.4	36
32	Molecular mechanisms involved in T cell receptor triggering. Seminars in Immunology, 2007, 19, 255-261.	2.7	70
33	The kinetic-segregation model: TCR triggering and beyond. Nature Immunology, 2006, 7, 803-809.	7.0	470
34	Structural and kinetic basis for heightened immunogenicity of T cell vaccines. Journal of Experimental Medicine, 2005, 201, 1243-1255.	4.2	248
35	The nature of molecular recognition by T cells. Nature Immunology, 2003, 4, 217-224.	7.0	203
36	MOLECULARINTERACTIONSMEDIATINGT CELLANTIGENRECOGNITION. Annual Review of Immunology, 2003, 21, 659-684.	9.5	454

#	Article	IF	Citations
37	IMMUNOLOGY: The Immunological Synapse--a Multitasking System. Science, 2002, 295, 1479-1480.	6.0	65
38	Formation and function of the immunological synapse. Current Opinion in Immunology, 2002, 14, 293-298.	2.4	100
39	CD8Î² Endows CD8 with Efficient Coreceptor Function by Coupling T Cell Receptor/CD3 to Raft-associated CD8/p56lck Complexes. Journal of Experimental Medicine, 2001, 194, 1485-1495.	4.2	189
40	Modeling costimulation. Nature Immunology, 2000, 1, 194-195.	7.0	10
41	Cytoskeletal polarization and redistribution of cell-surface molecules during T cell antigen recognition. Seminars in Immunology, 2000, 12, 5-21.	2.7	264
42	A Subtle Role for Cd2 in T Cell Antigen Recognition. Journal of Experimental Medicine, 1999, 190, 1371-1374.	4.2	31
43	Dependence of T Cell Antigen Recognition on the Dimensions of an Accessory Receptorâ€“Ligand Complex. Journal of Experimental Medicine, 1999, 190, 31-42.	4.2	109
44	Leukocyte adhesion: High-speed cells with ABS. Current Biology, 1999, 9, R419-R422.	1.8	14
45	Production of soluble Î±Î² Tâ€cell receptor heterodimers suitable for biophysical analysis of ligand binding. Protein Science, 1999, 8, 2418-2423.	3.1	46
46	Survival of FimH-expressing enterobacteria in macrophages relies on glycolipid traffic. Nature, 1997, 389, 636-639.	13.7	287
47	Transgene-encoded human CD2 acts in a dominant negative fashion to modify thymocyte selection signals in mice. European Journal of Immunology, 1996, 26, 2952-2963.	1.6	24
48	Analysis of cell-adhesion molecule interactions using surface plasmon resonance. Current Opinion in Immunology, 1996, 8, 257-261.	2.4	97
49	The NH2-terminal domain of rat CD2 binds rat CD48 with a low affinity and binding does not require glycosylation of CD2. European Journal of Immunology, 1993, 23, 1373-1377.	1.6	73