

Simon J Davis

List of Publications by Year in descending order

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86
papers

6,194
citations

117453

34
h-index

74018

75
g-index

88
all docs

88
docs citations

88
times ranked

8255
citing authors

#	ARTICLE	IF	CITATIONS
1	Colonic epithelial cell diversity in health and inflammatory bowel disease. <i>Nature</i> , 2019, 567, 49-55.	13.7	486
2	The kinetic-segregation model: TCR triggering and beyond. <i>Nature Immunology</i> , 2006, 7, 803-809.	7.0	470
3	Crystal structure of the B7-1/CTLA-4 complex that inhibits human immune responses. <i>Nature</i> , 2001, 410, 608-611.	13.7	438
4	The structure and ligand interactions of CD2: implications for T-cell function. <i>Trends in Immunology</i> , 1996, 17, 177-187.	7.5	394
5	Crystal structure at 2.8 Å... resolution of a soluble form of the cell adhesion molecule CD2. <i>Nature</i> , 1992, 360, 232-239.	13.7	330
6	TNF receptor 1 genetic risk mirrors outcome of anti-TNF therapy in multiple sclerosis. <i>Nature</i> , 2012, 488, 508-511.	13.7	323
7	The immunological synapse and CD28-CD80 interactions. <i>Nature Immunology</i> , 2001, 2, 1159-1166.	7.0	276
8	Initiation of T cell signaling by CD45 segregation at 'close contacts'. <i>Nature Immunology</i> , 2016, 17, 574-582.	7.0	253
9	The nature of molecular recognition by T cells. <i>Nature Immunology</i> , 2003, 4, 217-224.	7.0	203
10	Topological Requirements and Signaling Properties of T Cell-activating, Anti-CD28 Antibody Superagonists. <i>Journal of Experimental Medicine</i> , 2003, 197, 955-966.	4.2	175
11	Crystal structure of a soluble CD28-Fab complex. <i>Nature Immunology</i> , 2005, 6, 271-279.	7.0	153
12	CD2 and the nature of protein interactions mediating cell-cell recognition. <i>Immunological Reviews</i> , 1998, 163, 217-236.	2.8	150
13	Nitric Oxide Modulates Metabolic Remodeling in Inflammatory Macrophages through TCA Cycle Regulation and Itaconate Accumulation. <i>Cell Reports</i> , 2019, 28, 218-230.e7.	2.9	149
14	Cytoskeletal actin dynamics shape a ramifying actin network underpinning immunological synapse formation. <i>Science Advances</i> , 2017, 3, e1603032.	4.7	143
15	Topology of the CD2-CD48 cell-adhesion molecule complex: implications for antigen recognition by T cells. <i>Current Biology</i> , 1995, 5, 74-84.	1.8	123
16	Monomeric TCRs drive T cell antigen recognition. <i>Nature Immunology</i> , 2018, 19, 487-496.	7.0	111
17	Immune Checkpoints as Therapeutic Targets in Autoimmunity. <i>Frontiers in Immunology</i> , 2018, 9, 2306.	2.2	96
18	Expanding Proteome Coverage with CHarge Ordered Parallel Ion aNalysis (CHOPIN) Combined with Broad Specificity Proteolysis. <i>Journal of Proteome Research</i> , 2017, 16, 1288-1299.	1.8	92

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19	Abrogation of collagen-induced arthritis by a peptidyl arginine deiminase inhibitor is associated with modulation of T cell-mediated immune responses. <i>Scientific Reports</i> , 2016, 6, 26430.	1.6	76
20	Antibody and HIV-1 gp120 recognition of CD4 undermines the concept of mimicry between antibodies and receptors. <i>Nature</i> , 1992, 358, 76-79.	13.7	73
21	The NH2-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
22	USP30 sets a trigger threshold for PINK1/PARKIN amplification of mitochondrial ubiquitylation. <i>Life Science Alliance</i> , 2020, 3, e202000768.	1.3	72
23	DySCo: Quantitating Associations of Membrane Proteins Using Two-Color Single-Molecule Tracking. <i>Biophysical Journal</i> , 2009, 97, L5-L7.	0.2	63
24	Capturing resting T cells: the perils of PLL. <i>Nature Immunology</i> , 2018, 19, 203-205.	7.0	62
25	The T Cell Receptor Triggering Apparatus Is Composed of Monovalent or Monomeric Proteins. <i>Journal of Biological Chemistry</i> , 2011, 286, 31993-32001.	1.6	61
26	A cell topography-based mechanism for ligand discrimination by the T cell receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14002-14010.	3.3	60
27	The discriminatory power of the T cell receptor. <i>ELife</i> , 2021, 10, .	2.8	52
28	Glycoprotein VI oligomerization in cell lines and platelets. <i>Journal of Thrombosis and Haemostasis</i> , 2007, 5, 1026-1033.	1.9	51
29	Remarkably low affinity of CD4/peptide-major histocompatibility complex class II protein interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5682-5687.	3.3	51
30	Lck and the nature of the T cell receptor trigger. <i>Trends in Immunology</i> , 2011, 32, 1-5.	2.9	50
31	Inflammatory Stroke Extracellular Vesicles Induce Macrophage Activation. <i>Stroke</i> , 2017, 48, 2292-2296.	1.0	49
32	Membrane Ultrastructure and T Cell Activation. <i>Frontiers in Immunology</i> , 2018, 9, 2152.	2.2	42
33	Three-Dimensional Super-Resolution in Eukaryotic Cells Using the Double-Helix Point Spread Function. <i>Biophysical Journal</i> , 2017, 112, 1444-1454.	0.2	41
34	PD-1 suppresses TCR-CD8 cooperativity during T-cell antigen recognition. <i>Nature Communications</i> , 2021, 12, 2746.	5.8	41
35	Receptor Quaternary Organization Explains G-Protein-Coupled Receptor Family Structure. <i>Cell Reports</i> , 2017, 20, 2654-2665.	2.9	40
36	Rigid-body Ligand Recognition Drives Cytotoxic T-lymphocyte Antigen 4 (CTLA-4) Receptor Triggering. <i>Journal of Biological Chemistry</i> , 2011, 286, 6685-6696.	1.6	39

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37	Development of a Sensitive, Scalable Method for Spatial, Cell-Type-Resolved Proteomics of the Human Brain. <i>Journal of Proteome Research</i> , 2019, 18, 1787-1795.	1.8	39
38	Effects of N-butyldeoxynojirimycin and the Lec3.2.8.1 mutant phenotype on N-glycan processing in Chinese hamster ovary cells: Application to glycoprotein crystallization. <i>Protein Science</i> , 1999, 8, 1696-1701.	3.1	37
39	Oligosaccharide analysis and molecular modeling of soluble forms of glycoproteins belonging to the Ly-6, scavenger receptor, and immunoglobulin superfamilies expressed in Chinese hamster ovary cells. <i>Glycobiology</i> , 1999, 9, 443-458.	1.3	37
40	LAG-3: a very singular immune checkpoint. <i>Nature Immunology</i> , 2018, 19, 1278-1279.	7.0	36
41	HLA-E-restricted, Gag-specific CD8 ⁺ T cells can suppress HIV-1 infection, offering vaccine opportunities. <i>Science Immunology</i> , 2021, 6, .	5.6	35
42	What Controls T Cell Receptor Phosphorylation?. <i>Cell</i> , 2010, 142, 668-669.	13.5	33
43	T Cell Receptors are Structures Capable of Initiating Signaling in the Absence of Large Conformational Rearrangements. <i>Journal of Biological Chemistry</i> , 2012, 287, 13324-13335.	1.6	33
44	A New Pathway of CD5 Glycoprotein-mediated T Cell Inhibition Dependent on Inhibitory Phosphorylation of Fyn Kinase. <i>Journal of Biological Chemistry</i> , 2011, 286, 30324-30336.	1.6	31
45	CD45 exclusion and cross-linking-based receptor signaling together broaden FcγRI reactivity. <i>Science Signaling</i> , 2018, 11, .	1.6	31
46	Single-Molecule Light-Sheet Imaging of Suspended T Cells. <i>Biophysical Journal</i> , 2018, 114, 2200-2211.	0.2	31
47	Coreceptors and TCR Signaling – the Strong and the Weak of It. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 597627.	1.8	31
48	Referenced Single-Molecule Measurements Differentiate between GPCR Oligomerization States. <i>Biophysical Journal</i> , 2015, 109, 1798-1806.	0.2	29
49	A robust mass spectrometry method for rapid profiling of erythrocyte ghost membrane proteomes. <i>Clinical Proteomics</i> , 2018, 15, 14.	1.1	28
50	Expression cloning of an equine T-lymphocyte glycoprotein CD2 cDNA. Structure-based analysis of conserved sequence elements. <i>FEBS Journal</i> , 1994, 219, 969-976.	0.2	27
51	Reconstitution of immune cell interactions in free-standing membranes. <i>Journal of Cell Science</i> , 2018, 132, .	1.2	25
52	The deubiquitinase TRABID stabilizes the K29/K48-specific E3 ubiquitin ligase HECTD1. <i>Journal of Biological Chemistry</i> , 2021, 296, 100246.	1.6	25
53	CD2F-10: a new member of the CD2 subset of the immunoglobulin superfamily. <i>Immunogenetics</i> , 2001, 53, 599-602.	1.2	24
54	vLUME: 3D virtual reality for single-molecule localization microscopy. <i>Nature Methods</i> , 2020, 17, 1097-1099.	9.0	23

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55	Glycosylation and Lipids Working in Concert Direct CD2 Ectodomain Orientation and Presentation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1060-1066.	2.1	22
56	Age-dependent changes in protein incorporation into collagen-rich tissues of mice by in vivo pulsed SILAC labelling. <i>ELife</i> , 2021, 10, .	2.8	22
57	The deubiquitylase USP9X controls ribosomal stalling. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	20
58	Single-Molecule Analysis of G Protein-Coupled Receptor Stoichiometry: Approaches and Limitations. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 96-108.	4.0	18
59	Type-3 BRET, an Improved Competition-Based Bioluminescence Resonance Energy Transfer Assay. <i>Biophysical Journal</i> , 2014, 106, L41-L43.	0.2	17
60	Analysis of the structure and interactions of CD2. <i>Biochemical Society Transactions</i> , 1993, 21, 952-958.	1.6	16
61	In situ and in silico kinetic analyses of programmed cell death-1 (PD-1) receptor, programmed cell death ligands, and B7-1 protein interaction network. <i>Journal of Biological Chemistry</i> , 2017, 292, 6799-6809.	1.6	16
62	Trapping or slowing the diffusion of T cell receptors at close contacts initiates T cell signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
63	Dimensions and Interactions of Large T-Cell Surface Proteins. <i>Frontiers in Immunology</i> , 2018, 9, 2215.	2.2	15
64	Constraints on GPCR Heterodimerization Revealed by the Type-4 Induced-Association BRET Assay. <i>Biophysical Journal</i> , 2019, 116, 31-41.	0.2	13
65	TCR signaling: the barrier within. <i>Nature Immunology</i> , 2014, 15, 136-137.	7.0	12
66	Hydrodynamic trapping measures the interaction between membrane-associated molecules. <i>Scientific Reports</i> , 2018, 8, 12479.	1.6	11
67	CalQuo: automated, simultaneous single-cell and population-level quantification of global intracellular Ca ²⁺ responses. <i>Scientific Reports</i> , 2015, 5, 16487.	1.6	10
68	Membrane Nanoclustersâ€™Tails of the Unexpected. <i>Cell</i> , 2015, 161, 433-434.	13.5	10
69	Extracellular vesicle integrins act as a nexus for platelet adhesion in cerebral microvessels. <i>Scientific Reports</i> , 2019, 9, 15847.	1.6	9
70	Effects of a local auxiliary protein on the two-dimensional affinity of a TCR-peptide MHC interaction. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	7
71	ABPP-HT*â€™Deep Meets Fast for Activity-Based Profiling of Deubiquitylating Enzymes Using Advanced DIA Mass Spectrometry Methods. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3263.	1.8	7
72	Reply to: Experimental challenge to a 'rigorous' BRET analysis of GPCR oligomerization. <i>Nature Methods</i> , 2007, 4, 601-601.	9.0	6

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73	Soft Polydimethylsiloxane-Supported Lipid Bilayers for Studying T Cell Interactions. <i>Biophysical Journal</i> , 2021, 120, 35-45.	0.2	6
74	The chaperonin CCT8 controls proteostasis essential for T cell maturation, selection, and function. <i>Communications Biology</i> , 2021, 4, 681.	2.0	6
75	Tetrahydrobiopterin modulates ubiquitin conjugation to UBC13/UBE2N and proteasome activity by S-nitrosation. <i>Scientific Reports</i> , 2018, 8, 14310.	1.6	5
76	BRET analysis of GPCR oligomerization: newer does not mean better. <i>Nature Methods</i> , 2007, 4, 4-4.	9.0	4
77	Detection of Cell Surface Ligands for Human Synovial $\alpha\beta$ T Cells. <i>Journal of Immunology</i> , 2019, 203, 2369-2376.	0.4	4
78	The Costs of Close Contacts: Visualizing the Energy Landscape of Cell Contacts at the Nanoscale. <i>Biophysical Journal</i> , 2020, 118, 1261-1269.	0.2	2
79	Single-cell measurements of two-dimensional binding affinity across cell contacts. <i>Biophysical Journal</i> , 2021, 120, 5032-5040.	0.2	2
80	Phagocytes Get Close to Their Enemies. <i>Developmental Cell</i> , 2016, 36, 131-132.	3.1	1
81	Mimicking ligands. <i>Nature</i> , 1993, 361, 212-212.	13.7	0
82	Estimation of the dissociation constant of the cell adhesion molecules srCD2 and srCD48 using analytical ultracentrifugation. <i>Biochemical Society Transactions</i> , 1995, 23, 435S-435S.	1.6	0
83	A Protein Expression Toolkit for Studying Signaling in T Cells. <i>Methods in Molecular Biology</i> , 2017, 1584, 451-472.	0.4	0
84	Macrophages: micromanagers of antagonistic signaling nanoclusters. <i>Journal of Cell Biology</i> , 2017, 216, 871-873.	2.3	0
85	Measuring GPCR Stoichiometry Using Types-1, -2, and -3 Bioluminescence Resonance Energy Transfer-Based Assays. <i>Methods in Molecular Biology</i> , 2019, 1947, 183-197.	0.4	0
86	T-Cell Receptor Ligands: Every which Way They Can. <i>Biophysical Journal</i> , 2020, 118, 2867-2869.	0.2	0