

David J T Vaux

List of Publications by Year in descending order

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67
papers

3,561
citations

159585

30
h-index

138484

58
g-index

69
all docs

69
docs citations

69
times ranked

4845
citing authors

#	ARTICLE	IF	CITATIONS
1	Interphase Nuclei of Many Mammalian Cell Types Contain Deep, Dynamic, Tubular Membrane-bound Invaginations of the Nuclear Envelope. <i>Journal of Cell Biology</i> , 1997, 136, 531-544.	5.2	342
2	Identification by anti-idiotypic antibodies of an intracellular membrane protein that recognizes a mammalian endoplasmic reticulum retention signal. <i>Nature</i> , 1990, 345, 495-502.	27.8	261
3	Repetitive disruptions of the nuclear envelope invoke temporary loss of cellular compartmentalization in laminopathies. <i>Human Molecular Genetics</i> , 2011, 20, 4175-4186.	2.9	250
4	Vaccinia virus utilizes microtubules for movement to the cell surface. <i>Journal of Cell Biology</i> , 2001, 154, 389-402.	5.2	208
5	The nucleoplasmic reticulum: form and function. <i>Trends in Cell Biology</i> , 2011, 21, 362-373.	7.9	200
6	Virological Synapse-Mediated Spread of Human Immunodeficiency Virus Type 1 between T Cells Is Sensitive to Entry Inhibition. <i>Journal of Virology</i> , 2010, 84, 3516-3527.	3.4	177
7	Foxp3 drives oxidative phosphorylation and protection from lipotoxicity. <i>JCI Insight</i> , 2017, 2, e89160.	5.0	150
8	Lamin B1 controls oxidative stress responses via Oct-1. <i>Journal of Cell Biology</i> , 2009, 184, 45-55.	5.2	140
9	Defects in lamin B1 expression or processing affect interphase chromosome position and gene expression. <i>Journal of Cell Biology</i> , 2007, 176, 593-603.	5.2	129
10	A Critical Role for Phospholipase C β 2 in α IIb β 3-mediated Platelet Spreading. <i>Journal of Biological Chemistry</i> , 2003, 278, 37520-37529.	3.4	117
11	Spike-nucleocapsid interaction in Semliki Forest virus reconstructed using network antibodies. <i>Nature</i> , 1988, 336, 36-42.	27.8	101
12	Phosphorylated BRCA1 Is Predominantly Located in the Nucleus and Mitochondria. <i>Molecular Biology of the Cell</i> , 2005, 16, 997-1010.	2.1	81
13	Parkinson's disease, Alzheimer's disease and motor neurone disease: identifying a common mechanism. <i>Neuroscience</i> , 2002, 113, 485-492.	2.3	75
14	Anti-biotin Antibodies Offer Superior Organelle-specific Labeling of Mitochondria over Avidin or Streptavidin. <i>Journal of Histochemistry and Cytochemistry</i> , 1997, 45, 1053-1057.	2.5	74
15	Influence of particle size and reactive oxygen species on cobalt chrome nanoparticle-mediated genotoxicity. <i>Biomaterials</i> , 2013, 34, 3559-3570.	11.4	72
16	Amyloid Fibril Formation by a Synthetic Peptide from a Region of Human Acetylcholinesterase that Is Homologous to the Alzheimer's Amyloid- β Peptide. <i>Biochemistry</i> , 2002, 41, 13539-13547.	2.5	71
17	A carboxyl-terminal interaction of lamin B1 is dependent on the CAAX endoprotease Rce1 and carboxymethylation. <i>Journal of Cell Biology</i> , 2003, 162, 1223-1232.	5.2	71
18	Combined Effects of Agitation, Macromolecular Crowding, and Interfaces on Amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 38006-38019.	3.4	71

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19	Assessing mechanisms of GPIHBP1 and lipoprotein lipase movement across endothelial cells. <i>Journal of Lipid Research</i> , 2012, 53, 2690-2697.	4.2	62
20	Liquid-liquid phase separation of type II diabetes-associated IAPP initiates hydrogelation and aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12050-12061.	7.1	57
21	Enrichment of Amyloidogenesis at an Air-Water Interface. <i>Biophysical Journal</i> , 2012, 102, 1154-1162.	0.5	56
22	A novel role for BRCA1 in regulating breast cancer cell spreading and motility. <i>Journal of Cell Biology</i> , 2011, 192, 497-512.	5.2	54
23	The Cellular Location of Self-antigen Determines the Positive and Negative Selection of Autoreactive B Cells. <i>Journal of Experimental Medicine</i> , 2003, 198, 1415-1425.	8.5	49
24	The nuclear envelope can control gene expression and cell cycle progression via miRNA regulation. <i>Cell Cycle</i> , 2010, 9, 531-539.	2.6	49
25	Competing discrete interfacial effects are critical for amyloidogenesis. <i>FASEB Journal</i> , 2010, 24, 309-317.	0.5	48
26	The apparent absence of lamin B1 and emerin in many tissue nuclei is due to epitope masking. <i>Journal of Molecular Histology</i> , 2005, 36, 337-344.	2.2	45
27	The induction of a nucleoplasmic reticulum by prelamin A accumulation requires CTP:phosphocholine cytidyltransferase-1. <i>Journal of Cell Science</i> , 2011, 124, 4253-4266.	2.0	38
28	Multimodal nanoparticles as alignment and correlation markers in fluorescence/soft X-ray cryo-microscopy/tomography of nucleoplasmic reticulum and apoptosis in mammalian cells. <i>Ultramicroscopy</i> , 2014, 146, 46-54.	1.9	38
29	Lamin B1 Polymorphism Influences Morphology of the Nuclear Envelope, Cell Cycle Progression, and Risk of Neural Tube Defects in Mice. <i>PLoS Genetics</i> , 2012, 8, e1003059.	3.5	37
30	Nanoscale mapping of newly-synthesised phospholipid molecules in a biological cell using tip-enhanced Raman spectroscopy. <i>Chemical Communications</i> , 2017, 53, 2451-2454.	4.1	31
31	Rapid method for measurement of surface tension in multiwell plates. <i>Laboratory Investigation</i> , 2004, 84, 523-529.	3.7	30
32	Heterologous Amyloid Seeding: Revisiting the Role of Acetylcholinesterase in Alzheimer's Disease. <i>PLoS ONE</i> , 2007, 2, e652.	2.5	29
33	Dynamics of the formation of a hydrogel by a pathogenic amyloid peptide: islet amyloid polypeptide. <i>Scientific Reports</i> , 2016, 6, 32124.	3.3	29
34	Nuclear Envelope Invaginations and Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2014, 773, 523-535.	1.6	26
35	Formation of a nucleoplasmic reticulum requires de novo assembly of nascent phospholipids and shows preferential incorporation of nascent lamins. <i>Scientific Reports</i> , 2017, 7, 7454.	3.3	25
36	Elongation dynamics of amyloid fibrils: A rugged energy landscape picture. <i>Physical Review E</i> , 2009, 80, 041906.	2.1	24

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37	The Intact Human Acetylcholinesterase C-Terminal Oligomerization Domain Is β -Helical in Situ and in Isolation, but a Shorter Fragment Forms β -Sheet-Rich Amyloid Fibrils and Protofibrillar Oligomers. <i>Biochemistry</i> , 2003, 42, 10863-10873.	2.5	23
38	HIV protease inhibitors inhibit FACE1/ZMPSTE24: a mechanism for acquired lipodystrophy in patients on highly active antiretroviral therapy?. <i>Biochemical Society Transactions</i> , 2010, 38, 292-296.	3.4	22
39	In vivo localization of human acetylcholinesterase-derived species in a β -sheet conformation at the core of senile plaques in Alzheimer's disease. <i>Journal of Biological Chemistry</i> , 2019, 294, 6253-6272.	3.4	19
40	The nuclear envelope and its involvement in cellular stress responses. <i>Biochemical Society Transactions</i> , 2011, 39, 1795-1798.	3.4	16
41	The air-water interface determines the outcome of seeding during amyloidogenesis. <i>Biochemical Journal</i> , 2013, 456, 67-80.	3.7	15
42	Is <i>LMNB1</i> a susceptibility gene for neural tube defects in humans?. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2013, 97, 398-402.	1.6	14
43	Monoclonal antibody defines a macrophage intracellular Ca^{2+} -binding protein which is phosphorylated by phagocytosis. <i>Nature</i> , 1982, 299, 70-72.	27.8	11
44	Production of a Functional Anti-Scorpion Hemocyanin ScFv in <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 1995, 317, 429-438.	3.0	11
45	Structural Elements Regulating Amyloidogenesis: A Cholinesterase Model System. <i>PLoS ONE</i> , 2008, 3, e1834.	2.5	11
46	Stress-induced release of Oct-1 from the nuclear envelope is mediated by JNK phosphorylation of lamin B1. <i>PLoS ONE</i> , 2017, 12, e0177990.	2.5	10
47	Combined biochemical and cytological analysis of membrane trafficking using lectins. <i>Analytical Biochemistry</i> , 2013, 441, 21-31.	2.4	9
48	Uptake of Acetylcholinesterase by Neurons in the Substantia Nigra. <i>European Journal of Neuroscience</i> , 1995, 7, 351-357.	2.6	8
49	Transcription factor sequestration by nuclear envelope components. <i>Cell Cycle</i> , 2009, 8, 959-964.	2.6	7
50	The Physiological and Pathological Implications of the Formation of Hydrogels, with a Specific Focus on Amyloid Polypeptides. <i>Biomolecules</i> , 2017, 7, 70.	4.0	7
51	Lambda clone B22 contains a 7676 bp genomic fragment of <i>Saccharomyces cerevisiae</i> chromosome VII spanning the VAM7-SPM2 intergenic region and containing three novel transcribed open reading frames. <i>Yeast</i> , 1996, 12, 799-807.		6
52	Yeast Ypt11 is targeted to recycling endosomes in mammalian cells. <i>Biology of the Cell</i> , 2005, 97, 651-658.	2.0	6
53	Nucleoplasmic Reticulum Formation in Human Endometrial Cells is Steroid Hormone Responsive and Recruits Nascent Components. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5839.	4.1	6
54	Chapter 1 The Use of Antidiotype Antibodies for the Characterization of Protein-Protein Interactions. <i>Methods in Cell Biology</i> , 1991, 34, 1-38.	1.1	5

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55	Biosensor Architectures for High-Fidelity Reporting of Cellular Signaling. <i>Biophysical Journal</i> , 2014, 107, 773-782.	0.5	5
56	The enigma of phosphoinositides and their derivatives: Their role in regulation of subcellular compartment morphology. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183780.	2.6	5
57	Some medical applications of the oxford scanning proton microprobe. <i>Biological Trace Element Research</i> , 1987, 13, 115-133.	3.5	3
58	Vector alkaline phosphatase substrate Blue III: one substrate for brightfield histochemistry and high-resolution fluorescence imaging by confocal laser scanning microscopy. <i>The Histochemical Journal</i> , 1998, 30, 577-581.	0.6	3
59	The kinetics of islet amyloid polypeptide phase-separated system and hydrogel formation are critically influenced by macromolecular crowding. <i>Biochemical Journal</i> , 2021, 478, 3025-3046.	3.7	3
60	Anti-Biotin Antibodies Offer Superior Organelle-Specific Labelling of Mitochondria Over Avidin or Streptavidin. , 2008, 418, 157-170.		3
61	Activation rather than $Foxp3$ expression determines that $TGF\beta$ -induced regulatory T cells outcompete naive T cells in dendritic cell clustering. <i>European Journal of Immunology</i> , 2012, 42, 1436-1448.	2.9	2
62	Multiphasic effect of vinyl pyrrolidone polymers on amyloidogenesis, from macromolecular crowding to inhibition. <i>Biochemical Journal</i> , 2018, 475, 3417-3436.	3.7	2
63	An end to the paper chase?. <i>Trends in Biochemical Sciences</i> , 1994, 19, 301-302.	7.5	1
64	Methods for Single-Cell Pulse-Chase Analysis of Nuclear Components. <i>Methods in Molecular Biology</i> , 2016, 1411, 159-176.	0.9	1
65	The receptor-mediated retention of resident proteins in the endoplasmic reticulum. <i>Antonie Van Leeuwenhoek</i> , 1992, 61, 123-131.	1.7	0
66	Structure-Function relationships of the nuclear envelope. <i>Advances in Structural Biology</i> , 2000, , 261-298.	0.3	0
67	The Use of Antiidiotype Antibodies for the Characterization of Protein-Protein Interactions. , 1991, , 467-504.		0