Paul Verkade

List of Publications by Citations

126 papers	10,362 citations	45 h-index	101 g-index
143 ext. papers	11,406 ext. citations	7.6 avg, IF	5.87 L-index

#	Paper	IF	Citations
126	Loss of caveolae, vascular dysfunction, and pulmonary defects in caveolin-1 gene-disrupted mice. *Science*, **2001**, 293, 2449-52	33.3	1303
125	Lipid domain structure of the plasma membrane revealed by patching of membrane components. *Journal of Cell Biology*, **1998**, 141, 929-42	7.3	1040
124	Alzheimer's disease beta-amyloid peptides are released in association with exosomes. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11172-7	11.5	928
123	Self-assembling cages from coiled-coil peptide modules. *Science*, **2013**, 340, 595-9	33.3	376
122	Tight junctions are membrane microdomains. *Journal of Cell Science*, **2000**, 113, 1771-1781	5.3	337
121	Nanoparticles can cause DNA damage across a cellular barrier. *Nature Nanotechnology*, **2009**, 4, 876-83	28.7	303
120	Caveolin-1 and -2 in the exocytic pathway of MDCK cells. *Journal of Cell Biology*, **1998**, 140, 795-806	7.3	272
119	Clostridium difficile toxins disrupt epithelial barrier function by altering membrane microdomain localization of tight junction proteins. *Infection and Immunity*, **2001**, 69, 1329-36	3.7	251
118	ESCRT-III controls nuclear envelope reformation. *Nature*, **2015**, 522, 236-9	50.4	245
117	Lipids as modulators of proteolytic activity of BACE: involvement of cholesterol, glycosphingolipids, and anionic phospholipids in vitro. *Journal of Biological Chemistry*, **2005**, 280, 36815-23	5.4	228
116	The mammalian staufen protein localizes to the somatodendritic domain of cultured hippocampal neurons: implications for its involvement in mRNA transport. *Journal of Neuroscience*, **1999**, 19, 288-97	6.6	225
115	The retromer coat complex coordinates endosomal sorting and dynein-mediated transport, with carrier recognition by the trans-Golgi network. *Developmental Cell*, **2009**, 17, 110-22	10.2	214
114	Raft association of SNAP receptors acting in apical trafficking in Madin-Darby canine kidney cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 3734-8	11.5	213
113	FAPP2, cilium formation, and compartmentalization of the apical membrane in polarized Madin-Darby canine kidney (MDCK) cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 18556-61	11.5	174
112	Constitutive activation of Rho proteins by CNF-1 influences tight junction structure and epithelial barrier function. *Journal of Cell Science*, **2003**, 116, 725-42	5.3	172
111	Annexin XIIIb associates with lipid microdomains to function in apical delivery. *Journal of Cell Biology*, **1998**, 142, 1413-27	7.3	162
110	Tight junctions are membrane microdomains. *Journal of Cell Science*, **2000**, 113 (Pt 10), 1771-81	5.3	152

109	Phase coexistence and connectivity in the apical membrane of polarized epithelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 329-34	11.5	148
108	Polypyrimidine tract-binding protein promotes insulin secretory granule biogenesis. *Nature Cell Biology*, **2004**, 6, 207-14	23.4	137
107	Moving EM: the Rapid Transfer System as a new tool for correlative light and electron microscopy and high throughput for high-pressure freezing. *Journal of Microscopy*, **2008**, 230, 317-28	1.9	134
106	Efficient coupling of Sec23-Sec24 to Sec13-Sec31 drives COPII-dependent collagen secretion and is essential for normal craniofacial development. *Journal of Cell Science*, **2008**, 121, 3025-34	5.3	132
105	Apical membrane targeting of Nedd4 is mediated by an association of its C2 domain with annexin XIIIb. *Journal of Cell Biology*, **2000**, 149, 1473-84	7.3	128
104	Antibacterial effects of nanopillar surfaces are mediated by cell impedance, penetration and induction of oxidative stress. *Nature Communications*, **2020**, 11, 1626	17.4	124
103	PKCalpha regulates platelet granule secretion and thrombus formation in mice. *Journal of Clinical Investigation*, **2009**, 119, 399-407	15.9	124
102	SNX-BAR proteins in phosphoinositide-mediated, tubular-based endosomal sorting. *Seminars in Cell and Developmental Biology*, **2010**, 21, 371-80	7.5	123
101	SNX-BAR-mediated endosome tubulation is co-ordinated with endosome maturation. *Traffic*, **2012**, 13, 94-107	5.7	118
100	Organisation of human ER-exit sites: requirements for the localisation of Sec16 to transitional ER. *Journal of Cell Science*, **2009**, 122, 2924-34	5.3	115
99	Caveolin-1 is required for fatty acid translocase (FAT/CD36) localization and function at the plasma membrane of mouse embryonic fibroblasts. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 416-23	5	110
98	Recent advances in high-pressure freezing: equipment- and specimen-loading methods. *Methods in Molecular Biology*, **2007**, 369, 143-73	1.4	107
97	Induction of caveolae in the apical plasma membrane of Madin-Darby canine kidney cells. *Journal of Cell Biology*, **2000**, 148, 727-39	7.3	101
96	Infectious bronchitis virus generates spherules from zippered endoplasmic reticulum membranes. *MBio*, **2013**, 4, e00801-13	7.8	93
95	Mucosal reactive oxygen species decrease virulence by disrupting Campylobacter jejuni phosphotyrosine signaling. *Cell Host and Microbe*, **2012**, 12, 47-59	23.4	91
94	FAPP2 is involved in the transport of apical cargo in polarized MDCK cells. *Journal of Cell Biology*, **2005**, 170, 521-6	7.3	91
93	Long-chain fatty acid uptake into adipocytes depends on lipid raft function. *Biochemistry*, **2004**, 43, 4179-87	3.2	90
92	p75(NTR)-dependent activation of NF-ΒB regulates microRNA-503 transcription and pericyte-endothelial crosstalk in diabetes after limb ischaemia. *Nature Communications*, **2015**, 6, 8024	17.4	89

91	Engineered synthetic scaffolds for organizing proteins within the bacterial cytoplasm. *Nature Chemical Biology*, **2018**, 14, 142-147	11.7	85
90	In vivo characterisation of the Golgi matrix protein giantin: linking extracellular matrix secretion and cilia function. *Cilia*, **2015**, 4,	5.5	78
89	Robert Feulgen Lecture 1997. Lipid microdomains and membrane trafficking in mammalian cells. *Histochemistry and Cell Biology*, **1997**, 108, 211-20	2.4	66
88	The 2018 correlative microscopy techniques roadmap. *Journal Physics D: Applied Physics*, **2018**, 51, 443001	3.1	63
87	Studying intracellular transport using high-pressure freezing and Correlative Light Electron Microscopy. *Seminars in Cell and Developmental Biology*, **2009**, 20, 910-9	7.5	62
86	Cryo-transmission electron microscopy structure of a gigadalton peptide fiber of de novo design. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 13266-71	11.5	60
85	A role for Rab14 in the endocytic trafficking of GLUT4 in 3T3-L1 adipocytes. *Journal of Cell Science*, **2013**, 126, 1931-41	5.3	59
84	Involvement of caveolin-2 in caveolar biogenesis in MDCK cells. *FEBS Letters*, **2003**, 538, 85-8	3.8	57
83	Lactose as a "Trojan horse" for quantum dot cell transport. *Angewandte Chemie - International Edition*, **2014**, 53, 810-4	16.4	56
82	Novel standards in the measurement of rat insulin granules combining electron microscopy, high-content image analysis and in silico modelling. *Diabetologia*, **2012**, 55, 1013-23	10.3	49
81	The use of markers for correlative light electron microscopy. *Protoplasma*, **2010**, 244, 91-7	3.4	45
80	Mother Centriole Distal Appendages Mediate Centrosome Docking at the Immunological Synapse and Reveal Mechanistic Parallels with Ciliogenesis. *Current Biology*, **2015**, 25, 3239-44	6.3	42
79	Intracellular membrane traffic at high resolution. *Methods in Cell Biology*, **2010**, 96, 619-48	1.8	42
78	Different properties of two isoforms of annexin XIII in MDCK cells. *Journal of Cell Science*, **2000**, 113, 2607-2618	5.3	41
77	Decorating Self-Assembled Peptide Cages with Proteins. *ACS Nano*, **2017**, 11, 7901-7914	16.7	40
76	Molecular mechanism of myosin Va recruitment to dense core secretory granules. *Traffic*, **2012**, 13, 54-69	3.7	39
75	Caveolin-1 is not essential for biosynthetic apical membrane transport. *Molecular and Cellular Biology*, **2005**, 25, 10087-96	4.8	39
74	Introduction to correlative light and electron microscopy. *Methods in Cell Biology*, **2012**, 111, xvii-xix	1.8	38

73	A 3D cellular context for the macromolecular world. *Nature Structural and Molecular Biology*, **2014**, 21, 841-5	17.6	33
72	MiR-3120 is a mirror microRNA that targets heat shock cognate protein 70 and auxilin messenger RNAs and regulates clathrin vesicle uncoating. *Journal of Biological Chemistry*, **2012**, 287, 14726-33	5.4	33
71	B-50/GAP-43 potentiates cytoskeletal reorganization in raft domains. *Molecular and Cellular Neurosciences*, **1999**, 14, 85-97	4.8	33
70	Mice lacking the nuclear pore complex protein ALADIN show female infertility but fail to develop a phenotype resembling human triple A syndrome. *Molecular and Cellular Biology*, **2006**, 26, 1879-87	4.8	31
69	Islet cell autoantigen of 69 kDa is an arfaptin-related protein associated with the Golgi complex of insulinoma INS-1 cells. *Journal of Biological Chemistry*, **2003**, 278, 26166-73	5.4	27
68	De novo targeting to the cytoplasmic and luminal side of bacterial microcompartments. *Nature Communications*, **2018**, 9, 3413	17.4	27
67	Correlated Multimodal Imaging in Life Sciences: Expanding the Biomedical Horizon. *Frontiers in Physics*, **2020**, 8,	3.9	26
66	High-Contrast Imaging of Nanodiamonds in Cells by Energy Filtered and Correlative Light-Electron Microscopy: Toward a Quantitative Nanoparticle-Cell Analysis. *Nano Letters*, **2019**, 19, 2178-2185	11.5	26
65	The actin-driven spatiotemporal organization of T-cell signaling at the system scale. *Immunological Reviews*, **2013**, 256, 133-47	11.3	23
64	Cellular uptake and targeting of low dispersity, dual emissive, segmented block copolymer nanofibers. *Chemical Science*, **2020**, 11, 8394-8408	9.4	22
63	Ultrastructural co-localization of calmodulin and B-50/growth-associated protein-43 at the plasma membrane of proximal unmyelinated axon shafts studied in the model of the regenerating rat sciatic nerve. *Neuroscience*, **1997**, 79, 1207-18	3.9	22
62	In vitro placenta barrier model using primary human trophoblasts, underlying connective tissue and vascular endothelium. *Biomaterials*, **2019**, 192, 140-148	15.6	19
61	SNX15 links clathrin endocytosis to the PtdIns3P early endosome independently of the APPL1 endosome. *Journal of Cell Science*, **2013**, 126, 4885-99	5.3	19
60	Modifying Self-Assembled Peptide Cages To Control Internalization into Mammalian Cells. *Nano Letters*, **2018**, 18, 5933-5937	11.5	16
59	The increase in B-50/GAP-43 in regenerating rat sciatic nerve occurs predominantly in unmyelinated axon shafts: a quantitative ultrastructural study. *Journal of Comparative Neurology*, **1995**, 356, 433-43	3.4	16
58	In situ cryo-electron tomography reveals filamentous actin within the microtubule lumen. *Journal of Cell Biology*, **2020**, 219,	7.3	16
57	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. *Nature Methods*, **2021**, 18, 1418-1422	21.6	16
56	Capturing endocytic segregation events with HPF-CLEM. *Methods in Cell Biology*, **2012**, 111, 175-201	1.8	15

55	PKC links proximal T cell and Notch signaling through localized regulation of the actin cytoskeleton. *ELife*, **2017**, 6,	8.9	15
54	Different properties of two isoforms of annexin XIII in MDCK cells. *Journal of Cell Science*, **2000**, 113 (Pt 14), 2607-18	5.3	15
53	Development of a quantitative Correlative Light Electron Microscopy technique to study GLUT4 trafficking. *Protoplasma*, **2014**, 251, 403-16	3.4	14
52	Correlative two-photon and serial block face scanning electron microscopy in neuronal tissue using 3D near-infrared branding maps. *Methods in Cell Biology*, **2017**, 140, 245-276	1.8	13
51	Bioinspired Silicification Reveals Structural Detail in Self-Assembled Peptide Cages. *ACS Nano*, **2018** , 12, 1420-1432	16.7	13
50	Computational spatiotemporal analysis identifies WAVE2 and cofilin as joint regulators of costimulation-mediated T cell actin dynamics. *Science Signaling*, **2016**, 9, rs3	8.8	13
49	Infectious Bronchitis Virus Nonstructural Protein 4 Alone Induces Membrane Pairing. *Viruses*, **2018**, 10,	6.2	13
48	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. *Molecular Metabolism*, **2020**, 39, 100998	8.8	12
47	Direct Evidence of Lack of Colocalisation of Fluorescently Labelled Gold Labels Used in Correlative Light Electron Microscopy. *Scientific Reports*, **2017**, 7, 44666	4.9	11
46	Ultrastructural localization of B-50/growth-associated protein-43 to anterogradely transported synaptophysin-positive and calcitonin gene-related peptide-negative vesicles in the regenerating rat sciatic nerve. *Neuroscience*, **1996**, 71, 489-505	3.9	11
45	Molecular etiology of atherogenesis--in vitro induction of lipidosis in macrophages with a new LDL model. *PLoS ONE*, **2012**, 7, e34822	3.7	11
44	Early Signaling in Primary T Cells Activated by Antigen Presenting Cells Is Associated with a Deep and Transient Lamellal Actin Network. *PLoS ONE*, **2015**, 10, e0133299	3.7	11
43	Species differences in the morphology of transverse tubule openings in cardiomyocytes. *Europace*, **2018**, 20, iii120-iii124	3.9	11
42	Retracing in correlative light electron microscopy: where is my object of interest?. *Methods in Cell Biology*, **2014**, 124, 1-21	1.8	10
41	Optical micro-spectroscopy of single metallic nanoparticles: quantitative extinction and transient resonant four-wave mixing. *Faraday Discussions*, **2015**, 184, 305-20	3.6	9
40	Lactose as a Trojan Horse for Quantum Dot Cell Transport. *Angewandte Chemie*, **2014**, 126, 829-833	3.6	9
39	Endocytosis in flight-stimulated adipokinetic cells ofLocusta migratoria. *Cell and Tissue Research*, **1993**, 271, 485-489	4.2	9
38	Effect of metabolosome encapsulation peptides on enzyme activity, coaggregation, incorporation, and bacterial microcompartment formation. *MicrobiologyOpen*, **2020**, 9, e1010	3.4	8

37	Ultrastructural evidence for the lack of co-transport of B-50/GAP-43 and calmodulin in myelinated axons of the regenerating rat sciatic nerve. *Journal of Neurocytology*, **1996**, 25, 583-95		8
36	Ultrastructural Correlates of Enhanced Norepinephrine and Neuropeptide Y Cotransmission in the Spontaneously Hypertensive Rat Brain. *ASN Neuro*, **2015**, 7,	5.3	7
35	Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. *Journal of Lipid Research*, **2019**, 60, 1880-1891	6.3	7
34	Nano-scale morphology of cardiomyocyte t-tubule/sarcoplasmic reticulum junctions revealed by ultra-rapid high-pressure freezing and electron tomography. *Journal of Molecular and Cellular Cardiology*, **2021**, 153, 86-92	5.8	7
33	Modest Interference with Actin Dynamics in Primary T Cell Activation by Antigen Presenting Cells Preferentially Affects Lamellal Signaling. *PLoS ONE*, **2015**, 10, e0133231	3.7	6
32	A novel framework for segmentation of secretory granules in electron micrographs. *Medical Image Analysis*, **2014**, 18, 411-24	15.4	5
31	Using size-selected gold clusters on graphene oxide films to aid cryo-transmission electron tomography alignment. *Scientific Reports*, **2015**, 5, 9234	4.9	5
30	Acute depletion of diacylglycerol from the -Golgi affects localized nuclear envelope morphology during mitosis. *Journal of Lipid Research*, **2018**, 59, 1402-1413	6.3	4
29	Local accumulations of B-50/GAP-43 evoke excessive bleb formation in PC12 cells. *Molecular Neurobiology*, **1999**, 20, 17-28	6.2	4
28	The interaction of O157 :H7 and Typhimurium flagella with host cell membranes and cytoskeletal components. *Microbiology (United Kingdom)*, **2020**, 166, 947-965	2.9	4
27	Small-residue packing motifs modulate the structure and function of a minimal de novo membrane protein. *Scientific Reports*, **2020**, 10, 15203	4.9	4
26	Maintenance of complex I and its supercomplexes by NDUF-11 is essential for mitochondrial structure, function and health. *Journal of Cell Science*, **2021**, 134,	5.3	3
25	De Novo Designed Peptide and Protein Hairpins Self-Assemble into Sheets and Nanoparticles. *Small*, **2021**, 17, e2100472	11	3
24	A novel approach to identifying merging/splitting events in time-lapse microscopy **2016**,		2
23	The Importance of Sample Processing for Correlative Imaging (or, Rubbish In, Rubbish Out) **2019**, 37-66		2
22	Correlating Data from Imaging Modalities **2019**, 191-210		2
21	Quantitative biological measurement in Transmission Electron Tomography. *Journal of Physics: Conference Series*, **2012**, 371, 012019	0.3	2
20	Correlative Light and Electron Microscopy with High Time Resolution and Ultrastructural Preservation. *Microscopy and Microanalysis*, **2005**, 11,	0.5	2

19	Transient protein accumulation at the center of the T cell antigen-presenting cell interface drives efficient IL-2 secretion. *ELife*, **2019**, 8,	8.9	2
18	Bacterial flagella disrupt host cell membranes and interact with cytoskeletal components		2
17	Fluorescent platinum nanoclusters as correlative light electron microscopy probes. *Methods in Cell Biology*, **2021**, 162, 39-68	1.8	2
16	Correlative Light and Electron Microscopy of Influenza Virus Entry and Budding. *Methods in Molecular Biology*, **2018**, 1836, 237-260	1.4	2
15	Endothelial glycocalyx is damaged in diabetic cardiomyopathy: angiopoietin 1 restores glycocalyx and improves diastolic function in mice.. *Diabetologia*, **2022**, 65, 879	10.3	2
14	3D CLEM **2019**, 67-79		1
13	Joint denoising and contrast enhancement for light microscopy image sequences **2014**,		1
12	Feature-based registration for correlative light and electron microscopy images **2014**,		1
11	Correlative multimodal imaging: Building a community. *Methods in Cell Biology*, **2021**, 162, 417-430	1.8	1
10	Refining a correlative light electron microscopy workflow using luminescent metal complexes. *Methods in Cell Biology*, **2021**, 162, 69-87	1.8	0
9	High-Contrast Imaging of Nanodiamonds in Cells by Energy Filtered and Correlative Light-Electron Microscopy: Towards a Quantitative Nanoparticle-Cell Analysis. *Microscopy and Microanalysis*, **2019**, 25, 1056-1057	0.5	
8	Correlative Light- and Liquid-Phase Scanning Transmission Electron Microscopy for Studies of Protein Function in Whole Cells **2019**, 171-190		
7	Big Data in Correlative Imaging **2019**, 211-222		
6	A novel 2D and 3D method for automated insulin granule measurement and its application in assessing accepted preparation methods for electron microscopy. *Journal of Physics: Conference Series*, **2014**, 522, 012022	0.3	
5	CLEM, 1+1 =3. *Microscopy and Microanalysis*, **2017**, 23, 1270-1271	0.5	
4	Important steps in a Correlative Light Electron Microscopy Experiment. *Microscopy and Microanalysis*, **2015**, 21, 387-388	0.5	
3	Active contour based segmentation for insulin granule cores in electron micrographs of beta islet cells. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 5339-42	0.9	
2	Electron Microscopy (TEM and SEM) **2012**, 59-65		

1 High-pressure Freezing in CLEM. *Imaging & Microscopy*, **2007**, 9, 49-51