

Paul Verkade

List of Publications by Year in descending order

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124
papers

12,198
citations

44069

48
h-index

25787

108
g-index

143
all docs

143
docs citations

143
times ranked

16595
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss of Caveolae, Vascular Dysfunction, and Pulmonary Defects in Caveolin-1 Gene-Disrupted Mice. <i>Science</i> , 2001, 293, 2449-2452.	12.6	1,414
2	Alzheimer's disease β -amyloid peptides are released in association with exosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11172-11177.	7.1	1,133
3	Lipid Domain Structure of the Plasma Membrane Revealed by Patching of Membrane Components. <i>Journal of Cell Biology</i> , 1998, 141, 929-942.	5.2	1,118
4	Self-Assembling Cages from Coiled-Coil Peptide Modules. <i>Science</i> , 2013, 340, 595-599.	12.6	451
5	Tight junctions are membrane microdomains. <i>Journal of Cell Science</i> , 2000, 113, 1771-1781.	2.0	391
6	Nanoparticles can cause DNA damage across a cellular barrier. <i>Nature Nanotechnology</i> , 2009, 4, 876-883.	31.5	351
7	ESCRT-III controls nuclear envelope reformation. <i>Nature</i> , 2015, 522, 236-239.	27.8	305
8	<i>Clostridium difficile</i> Toxins Disrupt Epithelial Barrier Function by Altering Membrane Microdomain Localization of Tight Junction Proteins. <i>Infection and Immunity</i> , 2001, 69, 1329-1336.	2.2	300
9	Caveolin-1 and -2 in the Exocytic Pathway of MDCK Cells. <i>Journal of Cell Biology</i> , 1998, 140, 795-806.	5.2	283
10	Lipids as Modulators of Proteolytic Activity of BACE. <i>Journal of Biological Chemistry</i> , 2005, 280, 36815-36823.	3.4	260
11	The Retromer Coat Complex Coordinates Endosomal Sorting and Dynein-Mediated Transport, with Carrier Recognition by the trans-Golgi Network. <i>Developmental Cell</i> , 2009, 17, 110-122.	7.0	252
12	The Mammalian Staufen Protein Localizes to the Somatodendritic Domain of Cultured Hippocampal Neurons: Implications for Its Involvement in mRNA Transport. <i>Journal of Neuroscience</i> , 1999, 19, 288-297.	3.6	239
13	Antibacterial effects of nanopillar surfaces are mediated by cell impedance, penetration and induction of oxidative stress. <i>Nature Communications</i> , 2020, 11, 1626.	12.8	235
14	Raft association of SNAP receptors acting in apical trafficking in Madin-Darby canine kidney cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 3734-3738.	7.1	231
15	FAPP2, cilium formation, and compartmentalization of the apical membrane in polarized Madin-Darby canine kidney (MDCK) cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18556-18561.	7.1	188
16	Constitutive activation of Rho proteins by CNF-1 influences tight junction structure and epithelial barrier function. <i>Journal of Cell Science</i> , 2003, 116, 725-742.	2.0	184
17	Annexin XIIIb Associates with Lipid Microdomains to Function in Apical Delivery. <i>Journal of Cell Biology</i> , 1998, 142, 1413-1427.	5.2	172
18	Phase coexistence and connectivity in the apical membrane of polarized epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 329-334.	7.1	160

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19	Efficient coupling of Sec23-Sec24 to Sec13-Sec31 drives COPII-dependent collagen secretion and is essential for normal craniofacial development. <i>Journal of Cell Science</i> , 2008, 121, 3025-3034.	2.0	158
20	Polypyrimidine tract-binding protein promotes insulin secretory granule biogenesis. <i>Nature Cell Biology</i> , 2004, 6, 207-214.	10.3	155
21	Tight junctions are membrane microdomains. <i>Journal of Cell Science</i> , 2000, 113 (Pt 10), 1771-81.	2.0	155
22	Moving EM: the Rapid Transfer System as a new tool for correlative light and electron microscopy and high throughput for high-pressure freezing. <i>Journal of Microscopy</i> , 2008, 230, 317-328.	1.8	152
23	SNX-BAR proteins in phosphoinositide-mediated, tubular-based endosomal sorting. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 371-380.	5.0	150
24	SNX-BAR-Mediated Endosome Tubulation is Coordinated with Endosome Maturation. <i>Traffic</i> , 2012, 13, 94-107.	2.7	143
25	Organisation of human ER-exit sites: requirements for the localisation of Sec16 to transitional ER. <i>Journal of Cell Science</i> , 2009, 122, 2924-2934.	2.0	139
26	PKC ζ regulates platelet granule secretion and thrombus formation in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 399-407.	8.2	136
27	Apical Membrane Targeting of Nedd4 Is Mediated by an Association of Its C2 Domain with Annexin XiiiB. <i>Journal of Cell Biology</i> , 2000, 149, 1473-1484.	5.2	135
28	Engineered synthetic scaffolds for organizing proteins within the bacterial cytoplasm. <i>Nature Chemical Biology</i> , 2018, 14, 142-147.	8.0	128
29	Caveolin-1 is required for fatty acid translocase (FAT/CD36) localization and function at the plasma membrane of mouse embryonic fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006, 1761, 416-423.	2.4	124
30	p75NTR-dependent activation of NF- κ B regulates microRNA-503 transcription and pericyte-endothelial crosstalk in diabetes after limb ischaemia. <i>Nature Communications</i> , 2015, 6, 8024.	12.8	119
31	Recent Advances in High-Pressure Freezing. <i>Methods in Molecular Biology</i> , 2007, 369, 143-173.	0.9	118
32	Mucosal Reactive Oxygen Species Decrease Virulence by Disrupting <i>Campylobacter jejuni</i> Phosphotyrosine Signaling. <i>Cell Host and Microbe</i> , 2012, 12, 47-59.	11.0	118
33	Infectious Bronchitis Virus Generates Spherules from Zippered Endoplasmic Reticulum Membranes. <i>MBio</i> , 2013, 4, e00801-13.	4.1	118
34	Induction of Caveolae in the Apical Plasma Membrane of Madin-Darby Canine Kidney Cells. <i>Journal of Cell Biology</i> , 2000, 148, 727-740.	5.2	105
35	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 443001.	2.8	99
36	FAPP2 is involved in the transport of apical cargo in polarized MDCK cells. <i>Journal of Cell Biology</i> , 2005, 170, 521-526.	5.2	95

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37	Long-Chain Fatty Acid Uptake into Adipocytes Depends on Lipid Raft Function. <i>Biochemistry</i> , 2004, 43, 4179-4187.	2.5	93
38	Lipid microdomains and membrane trafficking in mammalian cells. <i>Histochemistry and Cell Biology</i> , 1997, 108, 211-220.	1.7	71
39	Cryo-transmission electron microscopy structure of a gigadalton peptide fiber of de novo design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13266-13271.	7.1	70
40	Studying intracellular transport using high-pressure freezing and Correlative Light Electron Microscopy. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 910-919.	5.0	68
41	A role for Rab14 in the endocytic trafficking of GLUT4 in 3T3-L1 adipocytes. <i>Journal of Cell Science</i> , 2013, 126, 1931-41.	2.0	67
42	Lactose as a "Trojan Horse" for Quantum Dot Cell Transport. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 810-814.	13.8	67
43	Mother Centriole Distal Appendages Mediate Centrosome Docking at the Immunological Synapse and Reveal Mechanistic Parallels with Ciliogenesis. <i>Current Biology</i> , 2015, 25, 3239-3244.	3.9	63
44	REMBI: Recommended Metadata for Biological Images"enabling reuse of microscopy data in biology. <i>Nature Methods</i> , 2021, 18, 1418-1422.	19.0	63
45	Involvement of caveolin-2 in caveolar biogenesis in MDCK cells. <i>FEBS Letters</i> , 2003, 538, 85-88.	2.8	62
46	Correlated Multimodal Imaging in Life Sciences: Expanding the Biomedical Horizon. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	61
47	Novel standards in the measurement of rat insulin granules combining electron microscopy, high-content image analysis and in silico modelling. <i>Diabetologia</i> , 2012, 55, 1013-1023.	6.3	59
48	The use of markers for correlative light electron microscopy. <i>Protoplasma</i> , 2010, 244, 91-97.	2.1	55
49	Decorating Self-Assembled Peptide Cages with Proteins. <i>ACS Nano</i> , 2017, 11, 7901-7914.	14.6	55
50	Preface. <i>Methods in Cell Biology</i> , 2012, 111, xvii-xix.	1.1	48
51	A 3D cellular context for the macromolecular world. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 841-845.	8.2	47
52	Intracellular Membrane Traffic at High Resolution. <i>Methods in Cell Biology</i> , 2010, 96, 619-648.	1.1	46
53	Volume electron microscopy. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	21.2	46
54	Molecular Mechanism of Myosin Va Recruitment to Dense Core Secretory Granules. <i>Traffic</i> , 2012, 13, 54-69.	2.7	45

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55	Different properties of two isoforms of annexin XIII in MDCK cells. <i>Journal of Cell Science</i> , 2000, 113, 2607-2618.	2.0	44
56	Caveolin-1 Is Not Essential for Biosynthetic Apical Membrane Transport. <i>Molecular and Cellular Biology</i> , 2005, 25, 10087-10096.	2.3	43
57	Mice Lacking the Nuclear Pore Complex Protein ALADIN Show Female Infertility but Fail To Develop a Phenotype Resembling Human Triple A Syndrome. <i>Molecular and Cellular Biology</i> , 2006, 26, 1879-1887.	2.3	41
58	MiR-3120 Is a Mirror MicroRNA That Targets Heat Shock Cognate Protein 70 and Auxilin Messenger RNAs and Regulates Clathrin Vesicle Uncoating. <i>Journal of Biological Chemistry</i> , 2012, 287, 14726-14733.	3.4	41
59	High-Contrast Imaging of Nanodiamonds in Cells by Energy Filtered and Correlative Light-Electron Microscopy: Toward a Quantitative Nanoparticle-Cell Analysis. <i>Nano Letters</i> , 2019, 19, 2178-2185.	9.1	40
60	De novo targeting to the cytoplasmic and luminal side of bacterial microcompartments. <i>Nature Communications</i> , 2018, 9, 3413.	12.8	39
61	Cellular uptake and targeting of low dispersity, dual emissive, segmented block copolymer nanofibers. <i>Chemical Science</i> , 2020, 11, 8394-8408.	7.4	39
62	B-50/GAP-43 Potentiates Cytoskeletal Reorganization in Raft Domains. <i>Molecular and Cellular Neurosciences</i> , 1999, 14, 85-97.	2.2	34
63	Islet Cell Autoantigen of 69 kDa Is an Arfaptin-related Protein Associated with the Golgi Complex of Insulinoma INS-1 Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 26166-26173.	3.4	33
64	In vitro placenta barrier model using primary human trophoblasts, underlying connective tissue and vascular endothelium. <i>Biomaterials</i> , 2019, 192, 140-148.	11.4	33
65	In situ cryo-electron tomography reveals filamentous actin within the microtubule lumen. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	32
66	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. <i>Molecular Metabolism</i> , 2020, 39, 100998.	6.5	29
67	The actin-driven spatiotemporal organization of T cell signaling at the system scale. <i>Immunological Reviews</i> , 2013, 256, 133-147.	6.0	27
68	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. <i>Neuroscience</i> , 1997, 79, 1207-1218.	2.3	26
69	Modifying Self-Assembled Peptide Cages To Control Internalization into Mammalian Cells. <i>Nano Letters</i> , 2018, 18, 5933-5937.	9.1	26
70	Computational spatiotemporal analysis identifies WAVE2 and cofilin as joint regulators of costimulation-mediated T cell actin dynamics. <i>Science Signaling</i> , 2016, 9, rs3.	3.6	24
71	SNX15 links clathrin endocytosis to the PtdIns(3)P early endosome independent of the APPL1 endosome. <i>Journal of Cell Science</i> , 2013, 126, 4885-99.	2.0	22
72	Capturing Endocytic Segregation Events with HPF-CLEM. <i>Methods in Cell Biology</i> , 2012, 111, 175-201.	1.1	21

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73	Preface. <i>Methods in Cell Biology</i> , 2014, 124, xvii-xviii.	1.1	21
74	Infectious Bronchitis Virus Nonstructural Protein 4 Alone Induces Membrane Pairing. <i>Viruses</i> , 2018, 10, 477.	3.3	20
75	Correlative two-photon and serial block face scanning electron microscopy in neuronal tissue using 3D near-infrared branding maps. <i>Methods in Cell Biology</i> , 2017, 140, 245-276.	1.1	19
76	Species differences in the morphology of transverse tubule openings in cardiomyocytes. <i>Europace</i> , 2018, 20, iii120-iii124.	1.7	19
77	Nano-scale morphology of cardiomyocyte t-tubule/sarcoplasmic reticulum junctions revealed by ultra-rapid high-pressure freezing and electron tomography. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 153, 86-92.	1.9	19
78	Molecular Etiology of Atherogenesis – In Vitro Induction of Lipidosis in Macrophages with a New LDL Model. <i>PLoS ONE</i> , 2012, 7, e34822.	2.5	19
79	Early Signaling in Primary T Cells Activated by Antigen Presenting Cells Is Associated with a Deep and Transient Lamellar Actin Network. <i>PLoS ONE</i> , 2015, 10, e0133299.	2.5	19
80	De Novo Designed Peptide and Protein Hairpins Self-Assemble into Sheets and Nanoparticles. <i>Small</i> , 2021, 17, e2100472.	10.0	18
81	PKC δ links proximal T cell and Notch signaling through localized regulation of the actin cytoskeleton. <i>ELife</i> , 2017, 6, .	6.0	18
82	Maintenance of complex I and its supercomplexes by NDUF-11 is essential for mitochondrial structure, function and health. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	17
83	The increase in B-50/GAP-43 in regenerating rat sciatic nerve occurs predominantly in unmyelinated axon shafts: A quantitative ultrastructural study. <i>Journal of Comparative Neurology</i> , 1995, 356, 433-443.	1.6	16
84	Development of a quantitative Correlative Light Electron Microscopy technique to study GLUT4 trafficking. <i>Protoplasma</i> , 2014, 251, 403-416.	2.1	16
85	Bioinspired Silicification Reveals Structural Detail in Self-Assembled Peptide Cages. <i>ACS Nano</i> , 2018, 12, 1420-1432.	14.6	16
86	Different properties of two isoforms of annexin XIII in MDCK cells. <i>Journal of Cell Science</i> , 2000, 113 () Tj ETQq0 0 Q rgBT /Overlock 10 T	2.9	15
87	Endothelial glycocalyx is damaged in diabetic cardiomyopathy: angiotensin 1 restores glycocalyx and improves diastolic function in mice. <i>Diabetologia</i> , 2022, 65, 879-894.	6.3	15
88	Retracing in Correlative Light Electron Microscopy. <i>Methods in Cell Biology</i> , 2014, 124, 1-21.	1.1	14
89	Direct Evidence of Lack of Colocalisation of Fluorescently Labelled Gold Labels Used in Correlative Light Electron Microscopy. <i>Scientific Reports</i> , 2017, 7, 44666.	3.3	14
90	Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. <i>Journal of Lipid Research</i> , 2019, 60, 1880-1891.	4.2	14

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91	Effect of metabolosome encapsulation peptides on enzyme activity, coaggregation, incorporation, and bacterial microcompartment formation. <i>MicrobiologyOpen</i> , 2020, 9, e1010.	3.0	14
92	Ultrastructural Correlates of Enhanced Norepinephrine and Neuropeptide Y Cotransmission in the Spontaneously Hypertensive Rat Brain. <i>ASN Neuro</i> , 2015, 7, 175909141561011.	2.7	13
93	The interaction of <i>Escherichia coli</i> O157:H7 and <i>Salmonella Typhimurium</i> flagella with host cell membranes and cytoskeletal components. <i>Microbiology (United Kingdom)</i> , 2020, 166, 947-965.	1.8	12
94	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. <i>Neuroscience</i> , 1996, 71, 489-505.	2.3	11
95	Ultrastructural evidence for the lack of co-transport of B-50/GAP-43 and calmodulin in myelinated axons of the regenerating rat sciatic nerve. <i>Journal of Neurocytology</i> , 1996, 25, 583-595.	1.5	11
96	Optical micro-spectroscopy of single metallic nanoparticles: quantitative extinction and transient resonant four-wave mixing. <i>Faraday Discussions</i> , 2015, 184, 305-320.	3.2	11
97	Endocytosis in flight-stimulated adipokinetic cells of <i>Locusta migratoria</i> . <i>Cell and Tissue Research</i> , 1993, 271, 485-489.	2.9	10
98	Modest Interference with Actin Dynamics in Primary T Cell Activation by Antigen Presenting Cells Preferentially Affects Lamellar Signaling. <i>PLoS ONE</i> , 2015, 10, e0133231.	2.5	8
99	A Novel Framework for Segmentation of Secretory Granules in Electron Micrographs. <i>Medical Image Analysis</i> , 2014, 18, 411-424.	11.6	7
100	Correlative Light and Electron Microscopy of Influenza Virus Entry and Budding. <i>Methods in Molecular Biology</i> , 2018, 1836, 237-260.	0.9	7
101	Transient protein accumulation at the center of the T cell antigen-presenting cell interface drives efficient IL-2 secretion. <i>ELife</i> , 2019, 8, .	6.0	7
102	Acute depletion of diacylglycerol from the cis-Golgi affects localized nuclear envelope morphology during mitosis. <i>Journal of Lipid Research</i> , 2018, 59, 1402-1413.	4.2	6
103	Correlative multimodal imaging: Building a community. <i>Methods in Cell Biology</i> , 2021, 162, 417-430.	1.1	6
104	Local accumulations of B-50/GAP-43 evoke excessive bleb formation in PC12 cells. <i>Molecular Neurobiology</i> , 1999, 20, 17-28.	4.0	5
105	Probing the future of correlative microscopy. <i>Journal of Chemical Biology</i> , 2015, 8, 127-128.	2.2	5
106	Using size-selected gold clusters on graphene oxide films to aid cryo-transmission electron tomography alignment. <i>Scientific Reports</i> , 2015, 5, 9234.	3.3	5
107	Small-residue packing motifs modulate the structure and function of a minimal de novo membrane protein. <i>Scientific Reports</i> , 2020, 10, 15203.	3.3	5
108	Fluorescent platinum nanoclusters as correlative light electron microscopy probes. <i>Methods in Cell Biology</i> , 2021, 162, 39-68.	1.1	5

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109	Refining a correlative light electron microscopy workflow using luminescent metal complexes. <i>Methods in Cell Biology</i> , 2021, 162, 69-87.	1.1	4
110	Correlative Light and Electron Microscopy with High Time Resolution and Ultrastructural Preservation. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.4	2
111	Quantitative biological measurement in Transmission Electron Tomography. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012019.	0.4	2
112	Feature-based registration for correlative light and electron microscopy images. , 2014, , .		2
113	Joint denoising and contrast enhancement for light microscopy image sequences. , 2014, , .		2
114	A novel approach to identifying merging/splitting events in time-lapse microscopy. , 2016, , .		2
115	Preface to CLEM IV: Broaden the horizon. <i>Methods in Cell Biology</i> , 2021, 162, xix.	1.1	2
116	Active contour based segmentation for insulin granule cores in electron micrographs of beta islet cells. , 2012, 2012, 5339-42.		1
117	RJMCMC-based tracking of vesicles in fluorescence time-lapse microscopy. , 2015, , .		1
118	Insulin Granule Segmentation in 3-D TEM Beta Cell Tomograms. , 2013, , .		1
119	High-pressure Freezing in CLEM. <i>Imaging & Microscopy</i> , 2007, 9, 49-51.	0.1	0
120	A novel 2D and 3D method for automated insulin granule measurement and its application in assessing accepted preparation methods for electron microscopy. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012022.	0.4	0
121	In vivo characterisation of the Golgi matrix protein giantin: linking extracellular matrix secretion and cilia function. <i>Cilia</i> , 2015, 4, .	1.8	0
122	Important steps in a Correlative Light Electron Microscopy Experiment. <i>Microscopy and Microanalysis</i> , 2015, 21, 387-388.	0.4	0
123	CLEM, 1+1 =3. <i>Microscopy and Microanalysis</i> , 2017, 23, 1270-1271.	0.4	0
124	High-Contrast Imaging of Nanodiamonds in Cells by Energy Filtered and Correlative Light-Electron Microscopy: Towards a Quantitative Nanoparticle-Cell Analysis. <i>Microscopy and Microanalysis</i> , 2019, 25, 1056-1057.	0.4	0