

Willie J C Geerts

List of Publications by Year in descending order

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69
papers

4,282
citations

147801

31
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110387

64
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72
all docs

72
docs citations

72
times ranked

5776
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular Metabolism Regulates Contact Sites between Vacuoles and Mitochondria. <i>Developmental Cell</i> , 2014, 30, 86-94.	7.0	285
2	Secretory traffic triggers the formation of tubular continuities across Golgi sub-compartments. <i>Nature Cell Biology</i> , 2004, 6, 1071-1081.	10.3	283
3	ER-to-Golgi Carriers Arise through Direct En Bloc Protrusion and Multistage Maturation of Specialized ER Exit Domains. <i>Developmental Cell</i> , 2003, 5, 583-594.	7.0	225
4	Correlative microscopy and electron tomography of GFP through photooxidation. <i>Nature Methods</i> , 2005, 2, 857-862.	19.0	207
5	Atg9 establishes Atg2-dependent contact sites between the endoplasmic reticulum and phagophores. <i>Journal of Cell Biology</i> , 2018, 217, 2743-2763.	5.2	194
6	Small cargo proteins and large aggregates can traverse the Golgi by a common mechanism without leaving the lumen of cisternae. <i>Journal of Cell Biology</i> , 2001, 155, 1225-1238.	5.2	185
7	Combined structural and chemical analysis of the anammoxosome: A membrane-bounded intracytoplasmic compartment in anammox bacteria. <i>Journal of Structural Biology</i> , 2008, 161, 401-410.	2.8	176
8	Immuno-electron tomography of ER exit sites reveals the existence of free COPII-coated transport carriers. <i>Nature Cell Biology</i> , 2006, 8, 377-383.	10.3	173
9	Linking Ultrastructure and Function in Four Genera of Anaerobic Ammonium-Oxidizing Bacteria: Cell Plan, Glycogen Storage, and Localization of Cytochrome <i>c</i> Proteins. <i>Journal of Bacteriology</i> , 2008, 190, 708-717.	2.2	163
10	The platelet interior revisited: electron tomography reveals tubular α -granule subtypes. <i>Blood</i> , 2010, 116, 1147-1156.	1.4	156
11	EGFR Dynamics Change during Activation in Native Membranes as Revealed by NMR. <i>Cell</i> , 2016, 167, 1241-1251.e11.	28.9	153
12	AP-1 and KIF13A coordinate endosomal sorting and positioning during melanosome biogenesis. <i>Journal of Cell Biology</i> , 2009, 187, 247-264.	5.2	146
13	SNX1 Defines an Early Endosomal Recycling Exit for Sortilin and Mannose 6-Phosphate Receptors. <i>Traffic</i> , 2008, 9, 380-393.	2.7	145
14	Electron tomography of early melanosomes: Implications for melanogenesis and the generation of fibrillar amyloid sheets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19726-19731.	7.1	133
15	Biogenesis of the demarcation membrane system (DMS) in megakaryocytes. <i>Blood</i> , 2014, 123, 921-930.	1.4	112
16	Contribution of high-resolution correlative imaging techniques in the study of the liver sieve in three-dimensions. <i>Microscopy Research and Technique</i> , 2007, 70, 230-242.	2.2	97
17	Golgi Enzymes Are Enriched in Perforated Zones of Golgi Cisternae but Are Depleted in COPI Vesicles. <i>Molecular Biology of the Cell</i> , 2004, 15, 4710-4724.	2.1	90
18	Complementary distribution of carbamoylphosphate synthetase (ammonia) and glutamine synthetase in rat liver acinus is regulated at a pretranslational level.. <i>Journal of Histochemistry and Cytochemistry</i> , 1988, 36, 751-755.	2.5	86

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19	Automated high-throughput electron tomography by pre-calibration of image shifts. <i>Journal of Microscopy</i> , 2002, 205, 187-200.	1.8	84
20	An evidence based hypothesis on the existence of two pathways of mitochondrial crista formation. <i>ELife</i> , 2016, 5, .	6.0	81
21	STEM tomography in cell biology. <i>Journal of Structural Biology</i> , 2007, 159, 381-391.	2.8	71
22	Isomyosin expression pattern during formation of the tubular chicken heart: A three-dimensional immunohistochemical analysis. <i>The Anatomical Record</i> , 1990, 226, 213-227.	1.8	59
23	Ultrastructure of the Denitrifying Methanotroph <i>Candidatus Methyloirabilis oxyfera</i> , a Novel Polygon-Shaped Bacterium. <i>Journal of Bacteriology</i> , 2012, 194, 284-291.	2.2	56
24	Membrane Contact Sites between Apicoplast and ER in <i>Toxoplasma gondii</i> Revealed by Electron Tomography. <i>Traffic</i> , 2009, 10, 1471-1480.	2.7	55
25	Cell division ring, a new cell division protein and vertical inheritance of a bacterial organelle in anammox planctomycetes. <i>Molecular Microbiology</i> , 2009, 73, 1009-1019.	2.5	53
26	Mast Cell Degranulation Is Accompanied by the Release of a Selective Subset of Extracellular Vesicles That Contain Mast Cell-Specific Proteases. <i>Journal of Immunology</i> , 2016, 197, 3382-3392.	0.8	49
27	High protein diet induces pericentral glutamate dehydrogenase and ornithine aminotransferase to provide sufficient glutamate for pericentral detoxification of ammonia in rat liver lobules. <i>Histochemistry and Cell Biology</i> , 1999, 111, 445-452.	1.7	47
28	Template matching as a tool for annotation of tomograms of stained biological structures. <i>Journal of Structural Biology</i> , 2007, 158, 327-335.	2.8	41
29	The local expression of adult chicken heart myosins during development. <i>Anatomy and Embryology</i> , 1986, 174, 187-193.	1.5	40
30	Basic strategies for valid cytometry using image analysis. <i>The Histochemical Journal</i> , 1997, 29, 347-364.	0.6	39
31	Three-dimensional organization of fenestrae labyrinths in liver sinusoidal endothelial cells. <i>Liver International</i> , 2009, 29, 603-613.	3.9	39
32	TRIM46 Organizes Microtubule Fasciculation in the Axon Initial Segment. <i>Journal of Neuroscience</i> , 2019, 39, 4864-4873.	3.6	38
33	Endosome-mediated autophagy. <i>Autophagy</i> , 2013, 9, 861-880.	9.1	35
34	Image analysis and image processing as tools to measure initial rates of enzyme reactions in sections: distribution patterns of glutamate dehydrogenase activity in rat liver lobules. <i>Journal of Histochemistry and Cytochemistry</i> , 1995, 43, 1027-1034.	2.5	31
35	Structure of Multilaminar Lysosomes in Antigen Presenting Cells Reveals Trapping of MHC II on the Internal Membranes. <i>Traffic</i> , 2004, 5, 936-945.	2.7	28
36	New comprehension of the apicoplast of <i>Sarcocystis</i> by transmission electron tomography. <i>Biology of the Cell</i> , 2006, 98, 535-545.	2.0	28

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37	Synovial fluid pretreatment with hyaluronidase facilitates isolation of CD44+ extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 31751.	12.2	28
38	Arginine I€-stacking drives binding to fibrils of the Alzheimer protein Tau. <i>Nature Communications</i> , 2020, 11, 571.	12.8	28
39	Distribution pattern of acetylcholinesterase in early embryonic chicken hearts. <i>The Anatomical Record</i> , 1990, 228, 297-305.	1.8	19
40	Gender-dependent regulation of glutamate dehydrogenase expression in periportal and pericentral zones of rat liver lobules.. <i>Journal of Histochemistry and Cytochemistry</i> , 1996, 44, 1153-1159.	2.5	19
41	Trans-Membrane Area Asymmetry Controls the Shape of Cellular Organelles. <i>International Journal of Molecular Sciences</i> , 2015, 16, 5299-5333.	4.1	19
42	cDNA sequence of the long mRNA for human glutamine synthase. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991, 1090, 249-251.	2.4	18
43	Quantitative graphical description of portocentral gradients in hepatic gene expression by image analysis. <i>Hepatology</i> , 1997, 26, 398-406.	7.3	17
44	The v-Crk Oncogene Enhances Cell Survival and Induces Activation of Protein Kinase B/Akt. <i>Journal of Biological Chemistry</i> , 2001, 276, 25176-25183.	3.4	17
45	A vaccinia virus lacking A10L: viral core proteins accumulate on structures derived from the endoplasmic reticulum. <i>Cellular Microbiology</i> , 2006, 8, 427-437.	2.1	17
46	Cobblestone HUVECs: A human model system for studying primary ciliogenesis. <i>Journal of Structural Biology</i> , 2011, 176, 350-359.	2.8	17
47	Immuno€-and Correlative Light Microscopy€Electron Tomography Methods for <scp>3D</scp> Protein Localization in Yeast. <i>Traffic</i> , 2014, 15, 1164-1178.	2.7	17
48	Spatial organization of the transforming MHC class II compartment. <i>Biology of the Cell</i> , 2010, 102, 581-591.	2.0	16
49	Creatine kinase isozyme expression in embryonic chicken heart. <i>Anatomy and Embryology</i> , 1989, 179, 387-393.	1.5	14
50	Correction of autofocusing errors due to specimen tilt for automated electron tomography. <i>Journal of Microscopy</i> , 2003, 211, 179-185.	1.8	14
51	MRI monitoring of nanocarrier accumulation and release using Gadolinium€SPIO co€labelled thermosensitive liposomes. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 184-194.	0.8	14
52	Hyperthermia-triggered release of hypoxic cell radiosensitizers from temperature-sensitive liposomes improves radiotherapy efficacy <i>in vitro</i>. <i>Nanotechnology</i> , 2019, 30, 264001.	2.6	14
53	In Situ Measurement of Glutamate Concentrations in the Periportal, Intermediate, and Pericentral Zones of Rat Liver. <i>Journal of Histochemistry and Cytochemistry</i> , 1997, 45, 1217-1229.	2.5	13
54	Zinc binding regulates amyloid-like aggregation of GAPR-1. <i>Bioscience Reports</i> , 2019, 39, .	2.4	13

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55	Lobular patterns of expression and enzyme activities of glutamine synthase, carbamoylphosphate synthase and glutamate dehydrogenase during postnatal development of the porcine liver. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994, 1200, 265-270.	2.4	12
56	Shortening of membrane lipid acyl chains compensates for phosphatidylcholine deficiency in choline auxotroph yeast. <i>EMBO Journal</i> , 2021, 40, e107966.	7.8	12
57	The dynamics of local kinetic parameters of glutamate dehydrogenase in rat liver. <i>Histochemistry and Cell Biology</i> , 1996, 106, 437-443.	1.7	9
58	Marked mitochondrial alterations upon starvation without cell death, caspases or Bcl-2 family members. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 2013-2019.	4.1	9
59	Foreword to the themed issue on correlative microscopy. <i>Journal of Microscopy</i> , 2009, 235, 239-240.	1.8	7
60	Immunohistochemical analysis of the distribution of histone H5 and hemoglobin during chicken development. <i>Differentiation</i> , 1987, 34, 161-167.	1.9	6
61	Electron Tomography and Correlative Approaches in Platelet Studies. <i>Methods in Molecular Biology</i> , 2018, 1812, 55-79.	0.9	5
62	The dynamics of local kinetic parameters of glutamate dehydrogenase in rat liver. <i>Histochemistry and Cell Biology</i> , 1996, 106, 437-443.	1.7	5
63	A Novel Method of Data Collection for Automated Electron Tomography Based upon Pre-calibration of Image Shifts and Defocus Changes. <i>Microscopy and Microanalysis</i> , 2001, 7, 78-79.	0.4	3
64	Differences in erythropoiesis in normal chicken and quail embryos. <i>The Histochemical Journal</i> , 1993, 25, 280-290.	0.6	2
65	D-CAT: Density and Clustering Annotation Tool for three dimensional electron microscopic volumes. <i>Journal of Structural Biology</i> , 2012, 177, 571-577.	2.8	1
66	Computer-Controlled Transmission Electron Microscopy: Automated Tomography. <i>Microscopy and Microanalysis</i> , 2001, 7, 968-969.	0.4	0
67	TEM and STEM Tomography for the Detection of Ultra Small Gold Labels within Stained and Plastic-Embedded Sections of Tissue. <i>Microscopy and Microanalysis</i> , 2003, 9, 1172-1173.	0.4	0
68	Hepatic steatosis and congenital portosystemic shunts: a three-dimensional transmission electron microscopic view. <i>Liver International</i> , 2009, 29, 884-885.	3.9	0
69	Combined structural and chemical analysis of unique anammox bacteria that contain a prokaryotic organelle. , 2008, , 65-66.		0