

Ben N G Giepmans

List of Publications by Year in descending order

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94
papers

14,853
citations

57758

44
h-index

51608

86
g-index

106
all docs

106
docs citations

106
times ranked

22593
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved monomeric red, orange and yellow fluorescent proteins derived from <i>Discosoma</i> sp. red fluorescent protein. <i>Nature Biotechnology</i> , 2004, 22, 1567-1572.	17.5	4,135
2	The Fluorescent Toolbox for Assessing Protein Location and Function. <i>Science</i> , 2006, 312, 217-224.	12.6	2,583
3	The gap junction protein connexin43 interacts with the second PDZ domain of the zona occludens-1 protein. <i>Current Biology</i> , 1998, 8, 931-934.	3.9	524
4	The ins and outs of lysophosphatidic acid signaling. <i>BioEssays</i> , 2004, 26, 870-881.	2.5	514
5	Gap junctions and connexin-interacting proteins. <i>Cardiovascular Research</i> , 2004, 62, 233-245.	3.8	417
6	Immunolabeling artifacts and the need for live-cell imaging. <i>Nature Methods</i> , 2012, 9, 152-158.	19.0	415
7	Correlated light and electron microscopy: ultrastructure lights up!. <i>Nature Methods</i> , 2015, 12, 503-513.	19.0	413
8	Mammalian cell-based optimization of the biarsenical-binding tetracysteine motif for improved fluorescence and affinity. <i>Nature Biotechnology</i> , 2005, 23, 1308-1314.	17.5	394
9	Correlated light and electron microscopic imaging of multiple endogenous proteins using Quantum dots. <i>Nature Methods</i> , 2005, 2, 743-749.	19.0	353
10	Dynamic trafficking and delivery of connexons to the plasma membrane and accretion to gap junctions in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10446-10451.	7.1	286
11	Endocytosis of Extracellular Vesicles and Release of Their Cargo from Endosomes. <i>ACS Nano</i> , 2020, 14, 4444-4455.	14.6	281
12	Gap junction protein connexin-43 interacts directly with microtubules. <i>Current Biology</i> , 2001, 11, 1364-1368.	3.9	256
13	Iron deficiency impairs contractility of human cardiomyocytes through decreased mitochondrial function. <i>European Journal of Heart Failure</i> , 2018, 20, 910-919.	7.1	225
14	EpCAM: Structure and function in health and disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1989-2001.	2.6	216
15	Long-Term In Vitro Expansion of Salivary Gland Stem Cells Driven by Wnt Signals. <i>Stem Cell Reports</i> , 2016, 6, 150-162.	4.8	175
16	Interaction of c-Src with Gap Junction Protein Connexin-43. <i>Journal of Biological Chemistry</i> , 2001, 276, 8544-8549.	3.4	171
17	The diagnosis of insulinitis in human type 1 diabetes. <i>Diabetologia</i> , 2013, 56, 2541-2543.	6.3	159
18	Rac Activation by Lysophosphatidic Acid LPA1 Receptors through the Guanine Nucleotide Exchange Factor Tiam1. <i>Journal of Biological Chemistry</i> , 2003, 278, 400-406.	3.4	157

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19	Golgi twins in late mitosis revealed by genetically encoded tags for live cell imaging and correlated electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17777-17782.	7.1	135
20	Epithelial cell cell junctions and plasma membrane domains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 820-831.	2.6	133
21	Connexin-43 Interactions with ZO-1 and β - and γ -tubulin. <i>Cell Communication and Adhesion</i> , 2001, 8, 219-223.	1.0	130
22	Gap junctional channels are parts of multiprotein complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1844-1865.	2.6	120
23	Spider and Bacterial Sphingomyelinases D Target Cellular Lysophosphatidic Acid Receptors by Hydrolyzing Lysophosphatidylcholine. <i>Journal of Biological Chemistry</i> , 2004, 279, 10833-10836.	3.4	116
24	Acute loss of Cell Cell Communication Caused by G Protein coupled Receptors: A Critical Role for c-Src. <i>Journal of Cell Biology</i> , 1998, 140, 1199-1209.	5.2	108
25	Lens Connexins β 3Cx46 and β 8Cx50 Interact with Zonula Occludens Protein-1 (ZO-1). <i>Molecular Biology of the Cell</i> , 2003, 14, 2470-2481.	2.1	108
26	Cx36 makes channels coupling human pancreatic β -cells, and correlates with insulin expression. <i>Human Molecular Genetics</i> , 2009, 18, 428-439.	2.9	105
27	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 443001.	2.8	99
28	Bridging fluorescence microscopy and electron microscopy. <i>Histochemistry and Cell Biology</i> , 2008, 130, 211-7.	1.7	91
29	Large-Scale Electron Microscopy Maps of Patient Skin and Mucosa Provide Insight into Pathogenesis of Blistering Diseases. <i>Journal of Investigative Dermatology</i> , 2015, 135, 1763-1770.	0.7	81
30	Role of Connexin43-Interacting Proteins at Gap Junctions. , 2006, 42, 41-56.		80
31	Nanodiamonds as multi-purpose labels for microscopy. <i>Scientific Reports</i> , 2017, 7, 720.	3.3	79
32	Visualization of Polarized Membrane Type 1 Matrix Metalloproteinase Activity in Live Cells by Fluorescence Resonance Energy Transfer Imaging. <i>Journal of Biological Chemistry</i> , 2008, 283, 17740-17748.	3.4	78
33	Regulation of connexin43 gap junctional communication by phosphatidylinositol 4,5-bisphosphate. <i>Journal of Cell Biology</i> , 2007, 177, 881-891.	5.2	74
34	Molecular Cloning, Functional Expression, and Tissue Distribution of a Novel Human Gap Junction-forming Protein, Connexin-31.9. <i>Journal of Biological Chemistry</i> , 2002, 277, 38272-38283.	3.4	73
35	Horizontal RNA transfer mediates platelet-induced hepatocyte proliferation. <i>Blood</i> , 2015, 126, 798-806.	1.4	72
36	Lysophosphatidic acid: mitogen and motility factor. <i>Biochemical Society Transactions</i> , 2003, 31, 1209-1212.	3.4	69

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37	Markers for Correlated Light and Electron Microscopy. <i>Methods in Cell Biology</i> , 2007, 79, 575-591.	1.1	68
38	Multicolor Electron Microscopy for Simultaneous Visualization of Multiple Molecular Species. <i>Cell Chemical Biology</i> , 2016, 23, 1417-1427.	5.2	68
39	Dual effects of soluble CD14 on LPS priming of neutrophils. <i>Journal of Leukocyte Biology</i> , 1997, 61, 173-178.	3.3	66
40	Guanine quadruplex structures localize to heterochromatin. <i>Nucleic Acids Research</i> , 2016, 44, 152-163.	14.5	60
41	Normothermic machine perfusion reduces bile duct injury and improves biliary epithelial function in rat donor livers. <i>Liver Transplantation</i> , 2016, 22, 994-1005.	2.4	58
42	Survival and Functionality of Human Induced Pluripotent Stem Cell-Derived Oligodendrocytes in a Nonhuman Primate Model for Multiple Sclerosis. <i>Stem Cells Translational Medicine</i> , 2016, 5, 1550-1561.	3.3	57
43	EpCAM proteolysis: new fragments with distinct functions?. <i>Bioscience Reports</i> , 2013, 33, e00030.	2.4	52
44	Intravital correlated microscopy reveals differential macrophage and microglial dynamics during resolution of neuroinflammation. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 857-869.	2.4	52
45	Large-scale electron microscopy database for human type 1 diabetes. <i>Nature Communications</i> , 2020, 11, 2475.	12.8	51
46	Destruction of Tissue, Cells and Organelles in Type 1 Diabetic Rats Presented at Macromolecular Resolution. <i>Scientific Reports</i> , 2013, 3, 1804.	3.3	46
47	Glycerophosphodiesterase GDE2 Promotes Neuroblastoma Differentiation through Glypican Release and Is a Marker of Clinical Outcome. <i>Cancer Cell</i> , 2016, 30, 548-562.	16.8	46
48	Correlated Light Microscopy and Electron Microscopy. <i>Methods in Cell Biology</i> , 2012, 111, 157-173.	1.1	44
49	Absence of cell-surface EpCAM in congenital tufting enteropathy. <i>Human Molecular Genetics</i> , 2013, 22, 2566-2571.	2.9	43
50	Defective Activation of c-Src in Cystic Fibrosis Airway Epithelial Cells Results in Loss of Tumor Necrosis Factor- α -induced Gap Junction Regulation. <i>Journal of Biological Chemistry</i> , 2003, 278, 8326-8332.	3.4	42
51	Multi-color electron microscopy by element-guided identification of cells, organelles and molecules. <i>Scientific Reports</i> , 2017, 7, 45970.	3.3	42
52	Scanning EM of non-heavy metal stained biosamples: Large-field of view, high contrast and highly efficient immunolabeling. <i>Experimental Cell Research</i> , 2015, 337, 202-207.	2.6	40
53	FLIPPER, a combinatorial probe for correlated live imaging and electron microscopy, allows identification and quantitative analysis of various cells and organelles. <i>Cell and Tissue Research</i> , 2015, 360, 61-70.	2.9	39
54	Transient von Willebrand factor-mediated platelet influx stimulates liver regeneration after partial hepatectomy in mice. <i>Liver International</i> , 2017, 37, 1731-1737.	3.9	39

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55	Nanobody-Based Probes for Subcellular Protein Identification and Visualization. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 573278.	3.7	39
56	Overexpression of Cystathionine β -Lyase Suppresses Detrimental Effects of Spinocerebellar Ataxia Type 3. <i>Molecular Medicine</i> , 2015, 21, 758-768.	4.4	37
57	Light and Electron Microscopic Localization of Multiple Proteins Using Quantum Dots. , 2007, 374, 43-54.		32
58	The role of enterocyte defects in the pathogenesis of congenital diarrheal disorders. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 1-12.	2.4	32
59	Characterization of the Association of Connexins and ZO-1 in the Lens. <i>Cell Communication and Adhesion</i> , 2001, 8, 213-217.	1.0	29
60	Lack of claudin-7 is a strong predictor of regional recurrence in oral and oropharyngeal squamous cell carcinoma. <i>Oral Oncology</i> , 2013, 49, 998-1005.	1.5	28
61	Selection of polymers for application in scaffolds applicable for human pancreatic islet transplantation. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 035006.	3.3	28
62	Enzymes for Pancreatic Islet Isolation Impact Chemokine-Production and Polarization of Insulin-Producing β -Cells with Reduced Functional Survival of Immunoisolated Rat Islet-Allografts as a Consequence. <i>PLoS ONE</i> , 2016, 11, e0147992.	2.5	27
63	Association of Connexin43 with a Receptor Protein Tyrosine Phosphatase. <i>Cell Communication and Adhesion</i> , 2003, 10, 201-205.	1.0	25
64	A novel flatworm-specific gene implicated in reproduction in <i>Macrostomum lignano</i> . <i>Scientific Reports</i> , 2018, 8, 3192.	3.3	24
65	ColorEM: analytical electron microscopy for element-guided identification and imaging of the building blocks of life. <i>Histochemistry and Cell Biology</i> , 2018, 150, 509-520.	1.7	24
66	Neodymium as an alternative contrast for uranium in electron microscopy. <i>Histochemistry and Cell Biology</i> , 2020, 153, 271-277.	1.7	24
67	Tubulysin Synthesis Featuring Stereoselective Catalysis and Highly Convergent Multicomponent Assembly. <i>Organic Letters</i> , 2020, 22, 5396-5400.	4.6	20
68	Large-scale Scanning Transmission Electron Microscopy (Nanotomy) of Healthy and Injured Zebrafish Brain. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	17
69	Enterovirus infection of human islets of Langerhans affects β -cell function resulting in disintegrated islets, decreased glucose stimulated insulin secretion and loss of Golgi structure. <i>BMJ Open Diabetes Research and Care</i> , 2016, 4, e000179.	2.8	16
70	A small protein probe for correlated microscopy of endogenous proteins. <i>Histochemistry and Cell Biology</i> , 2018, 149, 261-268.	1.7	16
71	Mitochondrial Dysfunction in Human Leukemic Stem/Progenitor Cells upon Loss of RAC2. <i>PLoS ONE</i> , 2015, 10, e0128585.	2.5	15
72	State-of-the-art microscopy to understand islets of Langerhans: what to expect next?. <i>Immunology and Cell Biology</i> , 2021, 99, 509-520.	2.3	9

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73	Re-addressing the 2013 consensus guidelines for the diagnosis of insulinitis in human type 1 diabetes: is change necessary?. <i>Diabetologia</i> , 2017, 60, 753-755.	6.3	7
74	Flexible and Extended Linker Domains Support Efficient Targeting of Heh2 to the Inner Nuclear Membrane. <i>Structure</i> , 2020, 28, 185-195.e5.	3.3	7
75	Reversible thrombocytopenia during hibernation originates from storage and release of platelets in liver sinusoids. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 603-615.	1.5	7
76	Gap Junction Morphology and Dynamics in Situ. , 2009, , 241-261.		6
77	Vps13 is required for timely removal of nurse cell corpses. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	6
78	Optimization of negative stage bias potential for faster imaging in large-scale electron microscopy. <i>Journal of Structural Biology: X</i> , 2021, 5, 100046.	1.3	4
79	Integrated Array Tomography for 3D Correlative Light and Electron Microscopy. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 822232.	3.5	4
80	Particle Bombardment of Ex Vivo Skin to Deliver DNA and Express Proteins. <i>Methods in Molecular Biology</i> , 2017, 1559, 107-118.	0.9	3
81	High-throughput imaging of biological samples with Delmic's FAST-EM. <i>Microscopy and Microanalysis</i> , 2021, 27, 558-560.	0.4	3
82	Integrated Array Tomography for High Throughput Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1038-1039.	0.4	2
83	Effect of Dentin Matrix Components on the Mineralization of Human Mesenchymal Stromal Cells. <i>Tissue Engineering - Part A</i> , 2019, 25, 1104-1115.	3.1	2
84	Early Upper Aerodigestive Tract Cancer Detection Using Electron Microscopy to Reveal Chromatin Packing Alterations in Buccal Mucosa Cells. <i>Microscopy and Microanalysis</i> , 2021, 27, 878-888.	0.4	2
85	Electron-Beam Induced Luminescence and Bleaching in Polymer Resins and Embedded Biomaterial. <i>Macromolecular Bioscience</i> , 2021, 21, 2100192.	4.1	2
86	Microscopic modulation and analysis of islets of Langerhans in living zebrafish larvae. <i>FEBS Letters</i> , 0, , .	2.8	2
87	Sample preparation for energy dispersive X-ray imaging of biological tissues. <i>Methods in Cell Biology</i> , 2021, 162, 89-114.	1.1	1
88	PS13 - 65. Correlated microscopy and nanotomography to analyze complete cross sections of Islets of Langerhans in Type I diabetes. <i>Nederlands Tijdschrift Voor Diabetologie</i> , 2011, 9, 135-135.	0.0	0
89	Large-scale EM & Correlative Microscopy (Nanotomography & CLEM). <i>Microscopy and Microanalysis</i> , 2016, 22, 198-199.	0.4	0
90	Multiscale Multimodal Multicolor Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1070-1071.	0.4	0

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91	Use of Negative Bias Potential for High Throughput Array Tomography in an Integrated Light-Electron Microscope. <i>Microscopy and Microanalysis</i> , 2019, 25, 1050-1051.	0.4	0
92	Label-free fluorescence predictions from large-scale correlative light and electron microscopy data. <i>Microscopy and Microanalysis</i> , 2021, 27, 94-95.	0.4	0
93	Mesenchymal Stem Cells from Patients 1 Year Following Autologous Stem Cell Transplantation Have a Pro-Inflammatory and Senescent Phenotype Compromising the Support of Hematopoietic Stem Cells. <i>Blood</i> , 2014, 124, 4368-4368.	1.4	0
94	Golgi twins in mitosis revealed by genetically encoded tags for live cell imaging and correlated electron microscopy. , 2008, , 337-338.		0