

# Geert van den Bogaart

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

5,708  
citations

94269

37  
h-index

85405

71  
g-index

103  
all docs

103  
docs citations

103  
times ranked

8427  
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane protein sequestering by ionic protein-lipid interactions. <i>Nature</i> , 2011, 479, 552-555.	13.7	515
2	Microscale thermophoresis quantifies biomolecular interactions under previously challenging conditions. <i>Methods</i> , 2013, 59, 301-315.	1.9	501
3	LRRK2 Controls an EndoA Phosphorylation Cycle in Synaptic Endocytosis. <i>Neuron</i> , 2012, 75, 1008-1021.	3.8	312
4	Lateral Diffusion of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2009, 131, 12650-12656.	6.6	293
5	Phosphatidylinositol 4,5-bisphosphate clusters act as molecular beacons for vesicle recruitment. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 679-686.	3.6	246
6	One SNARE complex is sufficient for membrane fusion. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 358-364.	3.6	233
7	On the Mechanism of Pore Formation by Melittin. <i>Journal of Biological Chemistry</i> , 2008, 283, 33854-33857.	1.6	163
8	Distribution, Lateral Mobility and Function of Membrane Proteins Incorporated into Giant Unilamellar Vesicles. <i>Biophysical Journal</i> , 2005, 88, 1134-1142.	0.2	132
9	Hydrophobic mismatch sorts SNARE proteins into distinct membrane domains. <i>Nature Communications</i> , 2015, 6, 5984.	5.8	130
10	Long Unfolded Linkers Facilitate Membrane Protein Import Through the Nuclear Pore Complex. <i>Science</i> , 2011, 333, 90-93.	6.0	128
11	Synaptotagmin-1 may be a distance regulator acting upstream of SNARE nucleation. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 805-812.	3.6	125
12	The tetraspanin web revisited by super-resolution microscopy. <i>Scientific Reports</i> , 2015, 5, 12201.	1.6	123
13	Modulation of Immune Responses by Particle Size and Shape. <i>Frontiers in Immunology</i> , 2020, 11, 607945.	2.2	122
14	Lipid peroxidation causes endosomal antigen release for cross-presentation. <i>Scientific Reports</i> , 2016, 6, 22064.	1.6	120
15	Phosphatidylinositol 4,5-Bisphosphate Increases Ca <sup>2+</sup> Affinity of Synaptotagmin-1 by 40-fold. <i>Journal of Biological Chemistry</i> , 2012, 287, 16447-16453.	1.6	112
16	Antigen Cross-Presentation by Macrophages. <i>Frontiers in Immunology</i> , 2020, 11, 1276.	2.2	102
17	Molecular sieving properties of the cytoplasm of <i>Escherichia coli</i> and consequences of osmotic stress. <i>Molecular Microbiology</i> , 2010, 77, 200-207.	1.2	100
18	Synaptic PI(3,4,5)P <sub>3</sub> Is Required for Syntaxin1A Clustering and Neurotransmitter Release. <i>Neuron</i> , 2013, 77, 1097-1108.	3.8	91

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19	CCDC115 Deficiency Causes a Disorder of Golgi Homeostasis with Abnormal Protein Glycosylation. American Journal of Human Genetics, 2016, 98, 310-321.	2.6	88
20	Protein mobility and diffusive barriers in <i>Escherichia coli</i> : consequences of osmotic stress. Molecular Microbiology, 2007, 64, 858-871.	1.2	82
21	TMEM199 Deficiency Is a Disorder of Golgi Homeostasis Characterized by Elevated Aminotransferases, Alkaline Phosphatase, and Cholesterol and Abnormal Glycosylation. American Journal of Human Genetics, 2016, 98, 322-330.	2.6	73
22	Single-vesicle imaging reveals different transport mechanisms between glutamatergic and GABAergic vesicles. Science, 2016, 351, 981-984.	6.0	72
23	On the Decrease in Lateral Mobility of Phospholipids by Sugars. Biophysical Journal, 2007, 92, 1598-1605.	0.2	71
24	Podosomes of dendritic cells facilitate antigen sampling. Journal of Cell Science, 2014, 127, 1052-1064.	1.2	71
25	Controlling synaptotagmin activity by electrostatic screening. Nature Structural and Molecular Biology, 2012, 19, 991-997.	3.6	69
26	Endosomal and Phagosomal SNAREs. Physiological Reviews, 2018, 98, 1465-1492.	13.1	68
27	Dual-Color Fluorescence-Burst Analysis to Probe Protein Efflux through the Mechanosensitive Channel MscL. Biophysical Journal, 2007, 92, 1233-1240.	0.2	67
28	Quaternary Structure of SecA in Solution and Bound to SecYEG Probed at the Single Molecule Level. Structure, 2011, 19, 430-439.	1.6	63
29	<i>cis</i> - and <i>trans</i> -membrane interactions of synaptotagmin-1. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11037-11042.	3.3	61
30	SNARE derived peptide mimic inducing membrane fusion. Chemical Communications, 2011, 47, 9405.	2.2	54
31	SWAP70 Organizes the Actin Cytoskeleton and Is Essential for Phagocytosis. Cell Reports, 2016, 17, 1518-1531.	2.9	53
32	The Lipid Dependence of Melittin Action Investigated by Dual-Color Fluorescence Burst Analysis. Biophysical Journal, 2007, 93, 154-163.	0.2	51
33	Oxygen in the tumor microenvironment: effects on dendritic cell function. Oncotarget, 2019, 10, 883-896.	0.8	51
34	Probing Receptor-Translocator Interactions in the Oligopeptide ABC Transporter by Fluorescence Correlation Spectroscopy. Biophysical Journal, 2008, 94, 3956-3965.	0.2	49
35	Catestatin as a Target for Treatment of Inflammatory Diseases. Frontiers in Immunology, 2018, 9, 2199.	2.2	47
36	Interleukin-6 secretion is limited by self-signaling in endosomes. Journal of Molecular Cell Biology, 2019, 11, 144-157.	1.5	44

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37	Stx5-Mediated ER-Golgi Transport in Mammals and Yeast. <i>Cells</i> , 2019, 8, 780.	1.8	42
38	Human Monocyte-Derived Dendritic Cells Produce Millimolar Concentrations of ROS in Phagosomes Per Second. <i>Frontiers in Immunology</i> , 2019, 10, 1216.	2.2	42
39	Quantum Sensing of Free Radicals in Primary Human Dendritic Cells. <i>Nano Letters</i> , 2022, 22, 1818-1825.	4.5	42
40	The Phosphoinositide Kinase PIKfyve Promotes Cathepsin-S-Mediated Major Histocompatibility Complex Class II Antigen Presentation. <i>IScience</i> , 2019, 11, 160-177.	1.9	41
41	VAMP8-mediated NOX2 recruitment to endosomes is necessary for antigen release. <i>European Journal of Cell Biology</i> , 2017, 96, 705-714.	1.6	40
42	Integrating glycomics and genomics uncovers SLC10A7 as essential factor for bone mineralization by regulating post-Golgi protein transport and glycosylation. <i>Human Molecular Genetics</i> , 2018, 27, 3029-3045.	1.4	37
43	Transmembrane Helices Are an Overlooked Source of Major Histocompatibility Complex Class I Epitopes. <i>Frontiers in Immunology</i> , 2017, 8, 1118.	2.2	36
44	Oxidized phagosomal NOX2 is replenished from lysosomes. <i>Journal of Cell Science</i> , 2017, 130, 1285-1298.	1.2	35
45	Tetraspanin microdomains control localized protein kinase C signaling in B cells. <i>Science Signaling</i> , 2017, 10, .	1.6	35
46	Microdomains of SNARE Proteins in the Plasma Membrane. <i>Current Topics in Membranes</i> , 2013, 72, 193-230.	0.5	34
47	Ethylene, an early marker of systemic inflammation in humans. <i>Scientific Reports</i> , 2017, 7, 6889.	1.6	32
48	Hypoxia potentiates monocyte-derived dendritic cells for release of tumor necrosis factor $\hat{\pm}$ via MAP3K8. <i>Bioscience Reports</i> , 2018, 38, .	1.1	31
49	Immunosuppression of Macrophages Underlies the Cardioprotective Effects of CST (Catestatin). <i>Hypertension</i> , 2021, 77, 1670-1682.	1.3	31
50	The PIKfyve Inhibitor Apilimod: A Double-Edged Sword against COVID-19. <i>Cells</i> , 2021, 10, 30.	1.8	30
51	Counting the SNAREs needed for membrane fusion. <i>Journal of Molecular Cell Biology</i> , 2011, 3, 204-205.	1.5	29
52	Calcium Promotes the Formation of Syntaxin 1 Mesoscale Domains through Phosphatidylinositol 4,5-Bisphosphate. <i>Journal of Biological Chemistry</i> , 2016, 291, 7868-7876.	1.6	29
53	Dual-color fluorescence-burst analysis to study pore formation and proteinâ€“protein interactions. <i>Methods</i> , 2008, 46, 123-130.	1.9	25
54	Sugary Logistics Gone Wrong: Membrane Trafficking and Congenital Disorders of Glycosylation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4654.	1.8	24

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55	Reverse Signaling by MHC-I Molecules in Immune and Non-Immune Cell Types. <i>Frontiers in Immunology</i> , 2020, 11, 605958.	2.2	23
56	The dendritic cell side of the immunological synapse. <i>Biomolecular Concepts</i> , 2016, 7, 17-28.	1.0	22
57	Fluorescence Lifetime Imaging Microscopy reveals rerouting of SNARE trafficking driving dendritic cell activation. <i>ELife</i> , 2017, 6, .	2.8	21
58	T cell cholesterol efflux suppresses apoptosis and senescence and increases atherosclerosis in middle aged mice. <i>Nature Communications</i> , 2022, 13, .	5.8	21
59	Chasing Uptake: Super-Resolution Microscopy in Endocytosis and Phagocytosis. <i>Trends in Cell Biology</i> , 2019, 29, 727-739.	3.6	20
60	Membrane trafficking as an active regulator of constitutively secreted cytokines. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	20
61	Chromogranin A regulates gut permeability <i>via</i> the antagonistic actions of its proteolytic peptides. <i>Acta Physiologica</i> , 2021, 232, e13655.	1.8	20
62	Nuclear transport factor directs localization of protein synthesis during mitosis. <i>Nature Cell Biology</i> , 2009, 11, 350-356.	4.6	19
63	Evaluation of Pulsed-FRAP and Conventional-FRAP for Determination of Protein Mobility in Prokaryotic Cells. <i>PLoS ONE</i> , 2011, 6, e25664.	1.1	18
64	Radical Stress Is More Cytotoxic in the Nucleus than in Other Organelles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4147.	1.8	16
65	What makes (hydroxy)chloroquine ineffective against COVID-19: insights from cell biology. <i>Journal of Molecular Cell Biology</i> , 2021, 13, 175-184.	1.5	15
66	The Roles of Phospholipase A2 in Phagocytes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 673502.	1.8	15
67	Congenital disorder of glycosylation caused by starting site-specific variant in syntaxin-5. <i>Nature Communications</i> , 2021, 12, 6227.	5.8	14
68	Fluorescence Lifetime Imaging of pH along the Secretory Pathway. <i>ACS Chemical Biology</i> , 2022, 17, 240-251.	1.6	12
69	Editorial: Membrane domains as new drug targets. <i>Frontiers in Physiology</i> , 2015, 6, 172.	1.3	11
70	Visualizing Intracellular SNARE Trafficking by Fluorescence Lifetime Imaging Microscopy. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	11
71	Catestatin regulates vesicular quanta through modulation of cholinergic and peptidergic (PACAPergic) stimulation in PC12 cells. <i>Cell and Tissue Research</i> , 2019, 376, 51-70.	1.5	11
72	Purification and Functional Reconstitution of the Bacterial Protein Translocation Pore, the SecYEG Complex. <i>Methods in Molecular Biology</i> , 2010, 619, 131-143.	0.4	10

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73	SWAP70 is a universal GEF-like adaptor for tethering actin to phagosomes. <i>Small GTPases</i> , 2017, 10, 1-12.	0.7	9
74	Secretory vesicles of immune cells contain only a limited number of interleukin 6 molecules. <i>FEBS Letters</i> , 2018, 592, 1535-1544.	1.3	9
75	Vacuolar escape of foodborne bacterial pathogens. <i>Journal of Cell Science</i> , 2021, 134, jcs247221.	1.2	9
76	Catestatin induces glycogenesis by stimulating the phosphoinositide 3-kinase-AKT pathway. <i>Acta Physiologica</i> , 2022, 235, e13775.	1.8	9
77	Novel and conventional inhibitors of canonical autophagy differently affect LC3-associated phagocytosis. <i>FEBS Letters</i> , 2022, 596, 491-509.	1.3	9
78	Putative regulation of macrophage-mediated inflammation by catestatin. <i>Trends in Immunology</i> , 2022, 43, 41-50.	2.9	7
79	The oligomeric state and stability of the mannitol transporter, Enzymellmtl, from <i>Escherichia coli</i> : A fluorescence correlation spectroscopy study. <i>Protein Science</i> , 2006, 15, 1977-1986.	3.1	6
80	Hypoxia and TLR9 activation drive CXCL4 production in systemic sclerosis plasmacytoid dendritic cells via mtROS and HIF-2 $\alpha$ . <i>Rheumatology</i> , 2022, 61, 2682-2693.	0.9	6
81	Inside insight to membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11729-11730.	3.3	5
82	Chemogenetic Tags with Probe Exchange for Live-Cell Fluorescence Microscopy. <i>ACS Chemical Biology</i> , 2021, 16, 891-904.	1.6	5
83	The anti-inflammatory peptide Catestatin blocks chemotaxis. <i>Journal of Leukocyte Biology</i> , 2022, 112, 273-278.	1.5	5
84	Mitochondrial interaction of fibrosis-protective 5-methoxy tryptophan enhances collagen uptake by macrophages. <i>Free Radical Biology and Medicine</i> , 2022, 188, 287-297.	1.3	5
85	Reaching for far-flung antigen: How solid-core podosomes of dendritic cells transform into protrusive structures. <i>Communicative and Integrative Biology</i> , 2014, 7, e9709611.	0.6	4
86	Assembling anisotropic colloids using curvature-mediated lipid sorting. <i>Soft Matter</i> , 2022, 18, 1757-1766.	1.2	3
87	Transmembrane Helices Are an Over-Presented and Evolutionarily Conserved Source of Major Histocompatibility Complex Class I and II Epitopes. <i>Frontiers in Immunology</i> , 2021, 12, 763044.	2.2	2
88	Quantitative Microscopy of SNARE Complexes in Live Cells. <i>Biophysical Journal</i> , 2018, 114, 9a-10a.	0.2	0
89	Catestatin Improves Insulin Sensitivity by Promoting M1-M2 Polarization and Inhibiting Obesity-Induced Macrophage Infiltration and Gluconeogenesis in Liver. <i>FASEB Journal</i> , 2019, 33, 834.13.	0.2	0
90	Editorial: Signaling Proteins for Endosomal and Lysosomal Function. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 821719.	1.8	0

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91	LC3-associated phagocytosis: a sorting mechanism for ubiquitinated membrane proteins?. , 2022, 1, 25-28.		0