

Jochen Lang

List of Publications by Year in descending order

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79
papers

3,885
citations

159585

30
h-index

128289

60
g-index

85
all docs

85
docs citations

85
times ranked

3441
citing authors

#	ARTICLE	IF	CITATIONS
1	A rescue factor abolishing neuronal cell death by a wide spectrum of familial Alzheimer's disease genes and A β . Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6336-6341.	7.1	545
2	Molecular mechanisms and regulation of insulin exocytosis as a paradigm of endocrine secretion. FEBS Journal, 1999, 259, 3-17.	0.2	304
3	SNAP-25 is expressed in islets of Langerhans and is involved in insulin release.. Journal of Cell Biology, 1995, 128, 1019-1028.	5.2	243
4	VAMP-2 and cellubrevin are expressed in pancreatic beta-cells and are essential for Ca(2+)-but not for GTP gamma S-induced insulin secretion.. EMBO Journal, 1995, 14, 2723-2730.	7.8	201
5	Activity-dependent mobilization of the adhesion molecule polysialic NCAM to the cell surface of neurons and endocrine cells.. EMBO Journal, 1994, 13, 5284-5292.	7.8	143
6	Direct control of exocytosis by receptor-mediated activation of the heterotrimeric GTPases Gi and G(o) or by the expression of their active G alpha subunits.. EMBO Journal, 1995, 14, 3635-3644.	7.8	122
7	Loss-of-function mutations in ADCY3 cause monogenic severe obesity. Nature Genetics, 2018, 50, 175-179.	21.4	122
8	The first C2 domain of synaptotagmin is required for exocytosis of insulin from pancreatic β -cells: action of synaptotagmin at low micromolar calcium. EMBO Journal, 1997, 16, 5837-5846.	7.8	113
9	Expression, localization and functional role of small GTPases of the Rab3 family in insulin-secreting cells. Journal of Cell Science, 1996, 109, 2265-2273.	2.0	111
10	Further functional in vitro comparison of pre- and postsynaptic dopamine receptors in the rabbit caudate nucleus. Naunyn-Schmiedeberg's Archives of Pharmacology, 1983, 323, 298-306.	3.0	110
11	Direct modulation of voltage-dependent calcium channels by muscarinic activation of a pertussis toxin-sensitive G-protein in hippocampal neurons. Pflugers Archiv European Journal of Physiology, 1989, 415, 255-261.	2.8	84
12	Expression and localisation of synaptotagmin isoforms in endocrine β -cells: their function in insulin exocytosis. Journal of Cell Science, 2001, 114, 1709-1716.	2.0	83
13	Ca ²⁺ -independent insulin exocytosis induced by alpha -latrotoxin requires latrophilin, a G protein-coupled receptor. EMBO Journal, 1998, 17, 648-657.	7.8	76
14	Glucotoxicity Inhibits Late Steps of Insulin Exocytosis. Endocrinology, 2007, 148, 1605-1614.	2.8	76
15	Soluble α -ethylmaleimide-sensitive-factor attachment protein and α -ethylmaleimide-insensitive factors are required for Ca ²⁺ -stimulated exocytosis of insulin. Biochemical Journal, 1996, 314, 199-203.	3.7	75
16	Expression and localisation of synaptotagmin isoforms in endocrine beta-cells: their function in insulin exocytosis. Journal of Cell Science, 2001, 114, 1709-16.	2.0	72
17	Adenylyl cyclase 8 is central to glucagon-like peptide 1 signalling and effects of chronically elevated glucose in rat and human pancreatic beta cells. Diabetologia, 2011, 54, 390-402.	6.3	69
18	VAMP-2 and cellubrevin are expressed in pancreatic beta-cells and are essential for Ca(2+)-but not for GTP gamma S-induced insulin secretion. EMBO Journal, 1995, 14, 2723-30.	7.8	65

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19	Cysteine String Protein Interacts with and Modulates the Maturation of the Cystic Fibrosis Transmembrane Conductance Regulator. <i>Journal of Biological Chemistry</i> , 2002, 277, 28948-28958.	3.4	54
20	Cysteine-string proteins regulate exocytosis of insulin independent from transmembrane ion fluxes. <i>FEBS Letters</i> , 1998, 437, 267-272.	2.8	52
21	Pertussis toxin abolishes the antinociception mediated by opioid receptors in rat spinal cord. <i>European Journal of Pharmacology</i> , 1987, 144, 91-95.	3.5	47
22	Transient expression of botulinum neurotoxin C1 light chain differentially inhibits calcium and glucose induced insulin secretion in clonal β -cells. <i>FEBS Letters</i> , 1997, 419, 13-17.	2.8	47
23	Mutational analysis of cysteine-string protein function in insulin exocytosis. <i>Journal of Cell Science</i> , 1999, 112, 1345-1351.	2.0	47
24	Activity-dependent mobilization of the adhesion molecule polysialic NCAM to the cell surface of neurons and endocrine cells. <i>EMBO Journal</i> , 1994, 13, 5284-92.	7.8	43
25	Insulinoma Cells Contain an Isoform of Ca^{2+} /Calmodulin-Dependent Protein Kinase II δ Associated with Insulin Secretion Vesicles*. <i>Endocrinology</i> , 1997, 138, 2577-2584.	2.8	42
26	Calcium influx activates adenylyl cyclase 8 for sustained insulin secretion in rat pancreatic beta cells. <i>Diabetologia</i> , 2015, 58, 324-333.	6.3	40
27	Exploring Functional β -Cell Heterogeneity In Vivo Using PSA-NCAM as a Specific Marker. <i>PLoS ONE</i> , 2009, 4, e5555.	2.5	39
28	Slow potentials encode intercellular coupling and insulin demand in pancreatic beta cells. <i>Diabetologia</i> , 2015, 58, 1291-1299.	6.3	39
29	Bioelectronic organ-based sensor for microfluidic real-time analysis of the demand in insulin. <i>Biosensors and Bioelectronics</i> , 2018, 117, 253-259.	10.1	39
30	Direct control of exocytosis by receptor-mediated activation of the heterotrimeric GTPases G_i and G_o or by the expression of their active G alpha subunits. <i>EMBO Journal</i> , 1995, 14, 3635-44.	7.8	33
31	The Variable C-Terminus of Cysteine String Proteins Modulates Exocytosis and Protein-Protein Interactions. <i>Biochemistry</i> , 2004, 43, 16212-16223.	2.5	32
32	Multilevel control of glucose homeostasis by adenylyl cyclase 8. <i>Diabetologia</i> , 2015, 58, 749-757.	6.3	29
33	Reversible transition between α -helix and β -sheet conformation of a transmembrane domain. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1722-1730.	2.6	28
34	Guiding pancreatic beta cells to target electrodes in a whole-cell biosensor for diabetes. <i>Lab on A Chip</i> , 2015, 15, 3880-3890.	6.0	28
35	Simultaneous monitoring of single cell and of micro-organ activity by PEDOT:PSS covered multi-electrode arrays. <i>Materials Science and Engineering C</i> , 2017, 81, 84-89.	7.3	28
36	α -Latrotoxin Induces Exocytosis by Inhibition of Voltage-dependent K^+ Channels and by Stimulation of L-type Ca^{2+} Channels via Latrophilin in β -Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 5522-5531.	3.4	27

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37	The calcium-sensing protein synaptotagmin 7 is expressed on different endosomal compartments in endocrine, neuroendocrine cells or neurons but not on large dense core vesicles. <i>Histochemistry and Cell Biology</i> , 2007, 127, 625-632.	1.7	27
38	Noninvasive long-term and real-time analysis of endocrine cells on microelectrode arrays. <i>Journal of Physiology</i> , 2012, 590, 1085-1091.	2.9	27
39	Synaptotagmin 8 is expressed both as a calcium-insensitive soluble and membrane protein in neurons, neuroendocrine and endocrine cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 73-81.	4.1	25
40	A charged prominence in the linker domain of the cysteine-string protein Csp β mediates its regulated interaction with the calcium sensor synaptotagmin 9 during exocytosis. <i>FASEB Journal</i> , 2011, 25, 132-143.	0.5	25
41	A Central Small Amino Acid in the VAMP2 Transmembrane Domain Regulates the Fusion Pore in Exocytosis. <i>Scientific Reports</i> , 2017, 7, 2835.	3.3	25
42	Chronic opiate receptor activation in vivo alters the level of g-protein subunits in guinea-pig myenteric plexus. <i>Neuroscience</i> , 1989, 32, 503-510.	2.3	24
43	Purification and characterization of subforms of the guanine-nucleotide-binding proteins Galphai and Galphao. <i>FEBS Journal</i> , 1989, 183, 687-692.	0.2	23
44	Conserved transducer coupling but different effector linkage upon expression of the myeloid fMet-Leu-Phe receptor in insulin secreting cells.. <i>EMBO Journal</i> , 1993, 12, 2671-2679.	7.8	22
45	Vertical Organic Electrochemical Transistors and Electronics for Low Amplitude Microorgan Signals. <i>Advanced Science</i> , 2022, 9, e2105211.	11.2	22
46	Over-expression of Slc30a8/ZnT8 selectively in the mouse β cell impairs glucagon release and responses to hypoglycemia. <i>Nutrition and Metabolism</i> , 2016, 13, 46.	3.0	20
47	Cysteine-string protein isoform beta (Csp β) is targeted to the trans-Golgi network as a non-palmitoylated CSP in clonal β -cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 109-119.	4.1	19
48	Synaptotagmin 11 interacts with components of the RNA-induced silencing complex RISC in clonal pancreatic β -cells. <i>FEBS Letters</i> , 2014, 588, 2217-2222.	2.8	19
49	Fusion pore in exocytosis: More than an exit gate? A β -cell perspective. <i>Cell Calcium</i> , 2017, 68, 45-61.	2.4	19
50	Distinct roles of the C2A and the C2B domain of the vesicular Ca ²⁺ sensor synaptotagmin 9 in endocrine β -cells. <i>Biochemical Journal</i> , 2007, 403, 483-492.	3.7	18
51	Dynamic Uni- and Multicellular Patterns Encode Biphasic Activity in Pancreatic Islets. <i>Diabetes</i> , 2021, 70, 878-888.	0.6	18
52	Antisera against the 36-17 sequence of rat G β 1 recognize only a 40 kDa G-protein in brain. <i>Biochemical and Biophysical Research Communications</i> , 1987, 148, 838-848.	2.1	14
53	Chronic Exposure of NG 108-15 Cells to Opiate Agonists Does Not Alter the Amount of the Guanine Nucleotide-Binding Proteins Gi and G β . <i>Journal of Neurochemistry</i> , 1989, 53, 1500-1506.	3.9	14
54	G-protein β -binding domains regulate insulin exocytosis in clonal pancreatic β -cells. <i>FEBS Letters</i> , 1998, 424, 202-206.	2.8	14

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55	Mutational analysis of cysteine-string protein function in insulin exocytosis. <i>Journal of Cell Science</i> , 1999, 112 (Pt 9), 1345-51.	2.0	14
56	Effect of monolayer lipid charges on the structure and orientation of protein VAMP1 at the air/water interface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 928-937.	2.6	13
57	Splice variant 3, but not 2 of receptor protein-tyrosine phosphatase β can mediate stimulation of insulin-secretion by α -latrotoxin. <i>Journal of Cellular Biochemistry</i> , 2006, 98, 1552-1559.	2.6	12
58	Biosensors in Diabetes: How to get the most out of evolution and transpose it into a signal. <i>IEEE Pulse</i> , 2014, 5, 30-34.	0.3	12
59	Design of Potassium-Selective Mixed Ion/Electron Conducting Polymers. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000134.	3.9	12
60	Insulinoma Cells Contain an Isoform of Ca ²⁺ /Calmodulin-Dependent Protein Kinase II δ Associated with Insulin Secretion Vesicles. <i>Endocrinology</i> , 1997, 138, 2577-2584.	2.8	12
61	Regulation of cytosolic calcium and insulin secretion by galanin and ATP receptors: interactions of pertussis-toxin-sensitive and -insensitive signalling pathways. <i>Biochemical Journal</i> , 1994, 303, 885-891.	3.7	10
62	Cell type-specific deletion in mice reveals roles for PAS kinase in insulin and glucagon production. <i>Diabetologia</i> , 2016, 59, 1938-1947.	6.3	10
63	The glutamate receptor GluK2 contributes to the regulation of glucose homeostasis and its deterioration during aging. <i>Molecular Metabolism</i> , 2019, 30, 152-160.	6.5	10
64	Sodium-Ion Selectivity Study of a Crown-Ether-Functionalized PEDOT Analog. <i>ChemElectroChem</i> , 2020, 7, 2826-2830.	3.4	10
65	Multimed: An Integrated, Multi-Application Platform for the Real-Time Recording and Sub-Millisecond Processing of Biosignals. <i>Sensors</i> , 2018, 18, 2099.	3.8	9
66	The transmembrane domain of the SNARE protein VAMP2 is highly sensitive to its lipid environment. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 670-676.	2.6	8
67	Distribution of the β -subunit of the Guanine Nucleotide-binding Protein G _{i2} and its Comparison to G _{i1} . <i>Journal of Receptors and Signal Transduction</i> , 1989, 9, 313-329.	1.2	7
68	PIPs and pools in insulin secretion. <i>Trends in Endocrinology and Metabolism</i> , 2003, 14, 297-299.	7.1	7
69	A game plan for exocytosis. <i>Trends in Cell Biology</i> , 1994, 4, 339-341.	7.9	6
70	Detection of Electrical Activity of Pancreatic Beta-cells Using Micro-electrode Arrays. , 2010, , .		6
71	NeuroBetaMed: A re-configurable wavelet-based event detection circuit for in vitro biological signals. , 2012, , .		6
72	A novel bioelectronic glucose sensor to process distinct electrical activities of pancreatic beta-cells. , 2013, 2013, 172-5.		6

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73	Conserved transducer coupling but different effector linkage upon expression of the myeloid fMet-Leu-Phe receptor in insulin secreting cells. EMBO Journal, 1993, 12, 2671-9.	7.8	6
74	Integrating an Islet-Based Biosensor in the Artificial Pancreas: In Silico Proof-of-Concept. IEEE Transactions on Biomedical Engineering, 2022, 69, 899-909.	4.2	4
75	Towards the Integration of an Islet-Based Biosensor in Closed-Loop Therapies for Patients With Type 1 Diabetes. Frontiers in Endocrinology, 2022, 13, 795225.	3.5	4
76	Synthesis and characterization of anti-idiotypic anti-T4 antibodies. European Journal of Endocrinology, 1994, 130, 107-112.	3.7	1
77	A versatile electrode sorting module for MEAs: Implementation in a FPGA-based real-time system. , 2017, , .		1
78	Design of Potassium-Selective Mixed Ion/Electron Conducting Polymers. Macromolecular Rapid Communications, 2020, 41, 2070030.	3.9	1
79	Guanine Nucleotide-Binding Proteins and Their Coupling to Opioid Receptors. , 1991, , 121-140.		0