Jochen Lang

List of Publications by Year
in descending order

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79	3,885	159585 30	128289 60
papers	citations	h-index	g-index

85	85	85	3441
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Vertical Organic Electrochemical Transistors and Electronics for Low Amplitude Microâ€Organ Signals. Advanced Science, 2022, 9, e2105211.	11.2	22
3	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
4	Dynamic Uni- and Multicellular Patterns Encode Biphasic Activity in Pancreatic Islets. Diabetes, 2021, 70, 878-888.	0.6	18
5	Design of Potassiumâ€Selective Mixed Ion/Electron Conducting Polymers. Macromolecular Rapid Communications, 2020, 41, e2000134.	3.9	12
6	Sodiumâ€Ion Selectivity Study of a Crownâ€Etherâ€Functionalized PEDOT Analog. ChemElectroChem, 2020, 7, 2826-2830.	3.4	10
7	Design of Potassiumâ€Selective Mixed Ion/Electron Conducting Polymers. Macromolecular Rapid Communications, 2020, 41, 2070030.	3.9	1
8	The glutamate receptor GluK2 contributes to the regulation of glucose homeostasis and its deterioration during aging. Molecular Metabolism, 2019, 30, 152-160.	6.5	10
9	The transmembrane domain of the SNARE protein VAMP2 is highly sensitive to its lipid environment. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 670-676.	2.6	8
10	Loss-of-function mutations in ADCY3 cause monogenic severe obesity. Nature Genetics, 2018, 50, 175-179.	21.4	122
11	Multimed: An Integrated, Multi-Application Platform for the Real-Time Recording and Sub-Millisecond Processing of Biosignals. Sensors, 2018, 18, 2099.	3.8	9
12	Bioelectronic organ-based sensor for microfluidic real-time analysis of the demand in insulin. Biosensors and Bioelectronics, 2018, 117, 253-259.	10.1	39
13	A Central Small Amino Acid in the VAMP2 Transmembrane Domain Regulates the Fusion Pore in Exocytosis. Scientific Reports, 2017, 7, 2835.	3.3	25
14	Fusion pore in exocytosis: More than an exit gate? A Î²-cell perspective. Cell Calcium, 2017, 68, 45-61.	2.4	19
15	A versatile electrode sorting module for MEAs: Implementation in a FPGA-based real-time system. , 2017, , .		1
16	Simultaneous monitoring of single cell and of micro-organ activity by PEDOT:PSS covered multi-electrode arrays. Materials Science and Engineering C, 2017, 81, 84-89.	7.3	28
17	Over-expression of Slc30a8/ZnT8 selectively in the mouse Î± cell impairs glucagon release and responses to hypoglycemia. Nutrition and Metabolism, 2016, 13, 46.	3.0	20
18	Cell type-specific deletion in mice reveals roles for PAS kinase in insulin and glucagon production. Diabetologia, 2016, 59, 1938-1947.	6.3	10

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19	Slow potentials encode intercellular coupling and insulin demand in pancreatic beta cells. Diabetologia, 2015, 58, 1291-1299.	6.3	39
20	Multilevel control of glucose homeostasis by adenylyl cyclase 8. Diabetologia, 2015, 58, 749-757.	6.3	29
21	Calcium influx activates adenylyl cyclase 8 for sustained insulin secretion in rat pancreatic beta cells. Diabetologia, 2015, 58, 324-333.	6.3	40
22	Guiding pancreatic beta cells to target electrodes in a whole-cell biosensor for diabetes. Lab on A Chip, 2015, 15, 3880-3890.	6.0	28
23	Biosensors in Diabetes: How to get the most out of evolution and transpose it into a signal. IEEE Pulse, 2014, 5, 30-34.	0.3	12
24	Synaptotagmin 11 interacts with components of the RNAâ€induced silencing complex RISC in clonal pancreatic Î²â€cells. FEBS Letters, 2014, 588, 2217-2222.	2.8	19
25	A novel bioelectronic glucose sensor to process distinct electrical activities of pancreatic beta-cells. , 2013, 2013, 172-5.		6
26	NeuroBetaMed: A re-configurable wavelet-based event detection circuit for in vitro biological signals. , 2012, , .		6
27	Nonâ€invasive longâ€term and realâ€time analysis of endocrine cells on microâ€electrode arrays. Journal of Physiology, 2012, 590, 1085-1091.	2.9	27
28	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
29	A charged prominence in the linker domain of the cysteineâ€string protein CspÎ± mediates its regulated interaction with the calcium sensor synaptotagmin 9 during exocytosis. FASEB Journal, 2011, 25, 132-143.	0.5	25
30	Detection of Electrical Activity of Pancreatic Beta-cells Using Micro-electrode Arrays. , 2010, , .		6
31	Effect of monolayer lipid charges on the structure and orientation of protein VAMP1 at the airâ€“water interface. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 928-937.	2.6	13
32	Exploring Functional Î²-Cell Heterogeneity In Vivo Using PSA-NCAM as a Specific Marker. PLoS ONE, 2009, 4, e5555.	2.5	39
33	Reversible transition between Î±-helix and Î²-sheet conformation of a transmembrane domain. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1722-1730.	2.6	28
34	Distinct roles of the C2A and the C2B domain of the vesicular Ca2+ sensor synaptotagmin 9 in endocrine Î²-cells. Biochemical Journal, 2007, 403, 483-492.	3.7	18
35	Glucotoxicity Inhibits Late Steps of Insulin Exocytosis. Endocrinology, 2007, 148, 1605-1614.	2.8	76
36	Cysteine-string protein isoform beta (CspÎ²) is targeted to the trans-Golgi network as a non-palmitoylated CSP in clonal Î²-cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 109-119.	4.1	19

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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. Histochemistry and Cell Biology, 2007, 127, 625-632.	1.7	27
38	Synaptotagmin 8 is expressed both as a calcium-insensitive soluble and membrane protein in neurons, neuroendocrine and endocrine cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 73-81.	4.1	25
39	Splice variant 3, but not 2 of receptor protein-tyrosine phosphatase Ïƒ can mediate stimulation of insulin-secretion by Î±-latrotoxin. Journal of Cellular Biochemistry, 2006, 98, 1552-1559.	2.6	12
40	Î±-Latrotoxin Induces Exocytosis by Inhibition of Voltage-dependent K+ Channels and by Stimulation of L-type Ca2+ Channels via Latrophilin in Î²-Cells. Journal of Biological Chemistry, 2006, 281, 5522-5531.	3.4	27
41	The Variable C-Terminus of Cysteine String Proteins Modulates Exocytosis and Proteinâ˜Protein Interactionsâ€. Biochemistry, 2004, 43, 16212-16223.	2.5	32
42	PIPs and pools in insulin secretion. Trends in Endocrinology and Metabolism, 2003, 14, 297-299.	7.1	7
43	Cysteine String Protein Interacts with and Modulates the Maturation of the Cystic Fibrosis Transmembrane Conductance Regulator. Journal of Biological Chemistry, 2002, 277, 28948-28958.	3.4	54
44	A rescue factor abolishing neuronal cell death by a wide spectrum of familial Alzheimer's disease genes and AÎ². Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6336-6341.	7.1	545
45	Expression and localisation of synaptotagmin isoforms in endocrine Î²-cells: their function in insulin exocytosis. Journal of Cell Science, 2001, 114, 1709-1716.	2.0	83
46	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
47	Molecular mechanisms and regulation of insulin exocytosis as a paradigm of endocrine secretion. FEBS Journal, 1999, 259, 3-17.	0.2	304
48	Mutational analysis of cysteine-string protein function in insulin exocytosis. Journal of Cell Science, 1999, 112, 1345-1351.	2.0	47
49	Mutational analysis of cysteine-string protein function in insulin exocytosis. Journal of Cell Science, 1999, 112 (Pt 9), 1345-51.	2.0	14
50	Ca2+-independent insulin exocytosis induced by alpha -latrotoxin requires latrophilin, a G protein-coupled receptor. EMBO Journal, 1998, 17, 648-657.	7.8	76
51	G-protein Î²Î³-binding domains regulate insulin exocytosis in clonal pancreatic Î²-cells. FEBS Letters, 1998, 424, 202-206.	2.8	14
52	Cysteine-string proteins regulate exocytosis of insulin independent from transmembrane ion fluxes. FEBS Letters, 1998, 437, 267-272.	2.8	52
53	Insulinoma Cells Contain an Isoform of Ca2+/Calmodulin-Dependent Protein Kinase II Î´ Associated with Insulin Secretion Vesicles*. Endocrinology, 1997, 138, 2577-2584.	2.8	42
54	Transient expression of botulinum neurotoxin C1 light chain differentially inhibits calcium and glucose induced insulin secretion in clonal Î²-cells. FEBS Letters, 1997, 419, 13-17.	2.8	47

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55	The first C2 domain of synaptotagmin is required for exocytosis of insulin from pancreatic Î²-cells: action of synaptotagmin at low micromolar calcium. EMBO Journal, 1997, 16, 5837-5846.	7.8	113
56	Insulinoma Cells Contain an Isoform of Ca2+/Calmodulin-Dependent Protein Kinase II Â Associated with Insulin Secretion Vesicles. Endocrinology, 1997, 138, 2577-2584.	2.8	12
57	Soluble N-ethylmaleimide-sensitive-factor attachment protein and N-ethylmaleimide-insensitive factors are required for Ca2+-stimulated exocytosis of insulin. Biochemical Journal, 1996, 314, 199-203.	3.7	75
58	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
59	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
60	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
61	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
62	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, 3635-44.	7.8	33
63	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
64	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
65	Synthesis and characterization of anti-idiotypic anti-T4 antibodies. European Journal of Endocrinology, 1994, 130, 107-112.	3.7	1
66	A game plan for exocytosis. Trends in Cell Biology, 1994, 4, 339-341.	7.9	6
67	Regulation of cytosolic calcium and insulin secretion by galanin and ATP receptors: interactions of pertussis-toxin-sensitive and -insensitive signalling pathways. Biochemical Journal, 1994, 303, 885-891.	3.7	10
68	Activity-dependent mobilization of the adhesion molecule polysialic NCAM to the cell surface of neurons and endocrine cells. EMBO Journal, 1994, 13, 5284-92.	7.8	43
69	Conserved transducer coupling but different effector linkage upon expression of the myeloid fMet-Leu-Phe receptor in insulin secreting cells.. EMBO Journal, 1993, 12, 2671-2679.	7.8	22
70	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
71	Guanine Nucleotide-Binding Proteins and Their Coupling to Opioid Receptors. , 1991, , 121-140.		0
72	Distribution of the Î±-subunit of the Guanine Nucleotide-binding Protein G_{i2}and its Comparison to GÎ±_o. Journal of Receptors and Signal Transduction, 1989, 9, 313-329.	1.2	7

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73	Purification and characterization of subforms of the guanine-nucleotide-binding proteins Galphai and Galphao. FEBS Journal, 1989, 183, 687-692.	0.2	23
74	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
75	Chronic Exposure of NG 108-15 Cells to Opiate Agonists Does Not Alter the Amount of the Guanine Nucleotide-Binding Proteins Giand GO. Journal of Neurochemistry, 1989, 53, 1500-1506.	3.9	14
76	Chronic opiate receptor activation in vivo alters the level of g-protein subunits in guinea-pig myenteric plexus. Neuroscience, 1989, 32, 503-510.	2.3	24
77	Pertussis toxin abolishes the antinociception mediated by opioid receptors in rat spinal cord. European Journal of Pharmacology, 1987, 144, 91-95.	3.5	47
78	Antisera against the 3â€“17 sequence of rat GÎ±i recognize only a 40 kDa G-protein in brain. Biochemical and Biophysical Research Communications, 1987, 148, 838-848.	2.1	14
79	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