

Manfred Lindau

List of Publications by Year in descending order

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97
papers

4,835
citations

87723

38
h-index

95083

68
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99
all docs

99
docs citations

99
times ranked

4176
citing authors

#	ARTICLE	IF	CITATIONS
1	On-Chip Cyclic Voltammetry Measurements Using a Compact 1024-Electrode CMOS IC. Analytical Chemistry, 2021, 93, 8027-8034.	3.2	3
2	Fusion pores with low conductance are cation selective. Cell Reports, 2021, 36, 109580.	2.9	3
3	Drug testing complementary metal-oxide-semiconductor chip reveals drug modulation of transmitter release for potential therapeutic applications. Journal of Neurochemistry, 2019, 151, 38-49.	2.1	6
4	Synaptic vesicle fusion: today and beyond. Nature Structural and Molecular Biology, 2019, 26, 663-668.	3.6	23
5	Precise Time Superresolution by Event Correlation Microscopy. Biophysical Journal, 2019, 116, 1732-1747.	0.2	1
6	Precision of Time Super-Resolution Imaging by Event Correlation Microscopy. Biophysical Journal, 2019, 116, 134a.	0.2	0
7	High throughput Drug Testing of Transmitter Release Events in Chromaffin Cells with Surface Modified CMOS Ic. Biophysical Journal, 2019, 116, 524a.	0.2	0
8	The Number of SNARE Complexes Changing Conformation during Vesicle Fusion. Biophysical Journal, 2019, 116, 528a.	0.2	0
9	Fusion Pore Dynamics and Snare Complex Mobility. Biophysical Journal, 2019, 116, 528a.	0.2	0
10	Structure-Based Estimate of Connexin 26 Conductance. Biophysical Journal, 2019, 116, 219a.	0.2	0
11	Relation between Release of Catecholamines and FFN511 Studied with Electrochemical Detector Arrays. Biophysical Journal, 2019, 116, 523a.	0.2	0
12	ELECTROCHEMICAL IMAGING OF EXOCYTOTIC FUSION EVENTS USING ELECTROCHEMICAL DETECTOR ARRAYS. , 2019, , 91-107.		0
13	Surface-modified CMOS IC electrochemical sensor array targeting single chromaffin cells for highly parallel amperometry measurements. Pflugers Archiv European Journal of Physiology, 2018, 470, 113-123.	1.3	17
14	Molecular mechanism of fusion pore formation driven by the neuronal SNARE complex. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12751-12756.	3.3	49
15	A Bidirectional-Current CMOS Potentiostat for Fast-Scan Cyclic Voltammetry Detector Arrays. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 894-903.	2.7	25
16	Single-Cell Recording of Vesicle Release From Human Neuroblastoma Cells Using 1024-ch Monolithic CMOS Bioelectronics. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1345-1355.	2.7	20
17	The fusion pore, 60 years after the first cartoon. FEBS Letters, 2018, 592, 3542-3562.	1.3	45
18	Fusion Pore Selectivity in Chromaffin Cells. Biophysical Journal, 2017, 112, 396a.	0.2	0

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19	Molecular Mechanism of Fusion Pore Formation. <i>Biophysical Journal</i> , 2017, 112, 473a.	0.2	0
20	A CMOS based Sensor Array Platform for Analysis of Exocytosis Events. <i>Biophysical Journal</i> , 2017, 112, 93a.	0.2	0
21	t-SNARE Transmembrane Domain Clustering Modulates Lipid Organization and Membrane Curvature. <i>Journal of the American Chemical Society</i> , 2017, 139, 18440-18443.	6.6	12
22	AFM/TIRF force clamp measurements of neurosecretory vesicle tethers reveal characteristic unfolding steps. <i>PLoS ONE</i> , 2017, 12, e0173993.	1.1	2
23	Prostaglandin E1 inhibits endocytosis in the \hat{I}^2 -cell endocytosis. <i>Journal of Endocrinology</i> , 2016, 229, 287-294.	1.2	5
24	Non-Faradaic Electrochemical Detection of Exocytosis from Mast and Chromaffin Cells Using Floating-Gate MOS Transistors. <i>Scientific Reports</i> , 2016, 5, 18477.	1.6	6
25	A Wireless FSCV Monitoring IC With Analog Background Subtraction and UWB Telemetry. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016, 10, 289-299.	2.7	28
26	The mystery of the fusion pore. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 5-6.	3.6	15
27	v-SNARE transmembrane domains function as catalysts for vesicle fusion. <i>ELife</i> , 2016, 5, .	2.8	50
28	A Coarse Grained Model for a Lipid Membrane with Physiological Composition and Leaflet Asymmetry. <i>PLoS ONE</i> , 2015, 10, e0144814.	1.1	43
29	Positively Charged Amino Acids at the SNAP-25 C Terminus Determine Fusion Rates, Fusion Pore Properties, and Energetics of Tight SNARE Complex Zippering. <i>Journal of Neuroscience</i> , 2015, 35, 3230-3239.	1.7	25
30	Time Super-Resolution Fluorescence Imaging by Event Correlation Microscopy. <i>Biophysical Journal</i> , 2014, 106, 24a.	0.2	0
31	How Could SNARE Proteins Open a Fusion Pore?. <i>Physiology</i> , 2014, 29, 278-285.	1.6	50
32	Direct Measurement of Secretory Vesicle-Plasma Membrane Tethering Interactions by Correlated AFM Force-Clamp and TIRF Microscopy. <i>Biophysical Journal</i> , 2014, 106, 525a-526a.	0.2	1
33	Molecular Dynamics Simulations of SNARE Complex Unzipping. <i>Biophysical Journal</i> , 2014, 106, 30a.	0.2	0
34	Rapid structural change in synaptosomal-associated protein 25 (SNAP25) precedes the fusion of single vesicles with the plasma membrane in live chromaffin cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14249-14254.	3.3	37
35	Juxtamembrane tryptophans of synaptobrevin 2 control the process of membrane fusion. <i>FEBS Letters</i> , 2013, 587, 67-72.	1.3	20
36	Direct Measurement of Ion Mobility in a Conducting Polymer. <i>Advanced Materials</i> , 2013, 25, 4488-4493.	11.1	267

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37	Parallel recording of neurotransmitters release from chromaffin cells using a 10 ^Å –10 CMOS IC potentiostat array with on-chip working electrodes. <i>Biosensors and Bioelectronics</i> , 2013, 41, 736-744.	5.3	83
38	Synaptotagmin 1 Is Necessary for the Ca ²⁺ Dependence of Clathrin-Mediated Endocytosis. <i>Journal of Neuroscience</i> , 2012, 32, 3778-3785.	1.7	42
39	Transparent Electrode Materials for Simultaneous Amperometric Detection of Exocytosis and Fluorescence Microscopy. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2012, 03, 243-253.	1.0	40
40	Coarse-Grain Simulations Reveal Movement of the Synaptobrevin C-Terminus in Response to Piconewton Forces. <i>Biophysical Journal</i> , 2012, 103, 959-969.	0.2	42
41	A Combined TIRF/AFM Approach to Investigate Nanomechanical Features at the Cytoplasmic Face of a Plasma Membrane. <i>Biophysical Journal</i> , 2012, 102, 318a.	0.2	0
42	High resolution electrophysiological techniques for the study of calcium-activated exocytosis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1234-1242.	1.1	33
43	A Coarse Grain Model for a Lipid Membrane with Physiological Composition and Leaflet Asymmetry. <i>Biophysical Journal</i> , 2012, 102, 172a.	0.2	0
44	Coarse Grain Simulations Reveal Movement of Synaptobrevin C Terminus in Response to Piconewton Forces Suggesting a Novel Fusion Pore Mechanism. <i>Biophysical Journal</i> , 2012, 102, 318a.	0.2	0
45	Sub-Frame Time Resolution in Fluorescence Imaging Reveals Delay Between SNAP25 Conformational change and Secretory Events in Chromaffin Cells. <i>Biophysical Journal</i> , 2012, 102, 317a-318a.	0.2	1
46	The Conformational Change of SNAP25 during the Exocytosis. <i>Biophysical Journal</i> , 2011, 100, 407a.	0.2	0
47	Positively Charged Amino Acids in the C-Terminal Domain of SNAP-25 Affect Fusion Pore Structure and Dynamics. <i>Biophysical Journal</i> , 2011, 100, 408a.	0.2	0
48	Detection of Transmitter Release from Single Living Cells Using Conducting Polymer Microelectrodes. <i>Advanced Materials</i> , 2011, 23, H184-8.	11.1	71
49	Noradrenaline inhibits exocytosis via the G protein $\beta\gamma$ subunit and refilling of the readily releasable granule pool via the $\alpha_1/2$ subunit. <i>Journal of Physiology</i> , 2010, 588, 3485-3498.	1.3	54
50	Hormonal inhibition of endocytosis: novel roles for noradrenaline and G protein G_z . <i>Journal of Physiology</i> , 2010, 588, 3499-3509.	1.3	11
51	Push-and-pull regulation of the fusion pore by synaptotagmin-7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19032-19037.	3.3	71
52	Role of the synaptobrevin C terminus in fusion pore formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18463-18468.	3.3	84
53	Role of the Synaptobrevin C-terminus in Fusion Pore Formation. <i>Biophysical Journal</i> , 2010, 98, 678a.	0.2	0
54	Electrochemical Detection of Signalling Responses in Excitatory and Non Excitatory Cells using Chemoreceptive Neuron MOS Transistors(CVMOS). <i>Biophysical Journal</i> , 2010, 98, 195a.	0.2	0

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55	Direct Synthesis of Quaternized Polymer Brushes and Their Application for Guiding Neuronal Growth. <i>Biomacromolecules</i> , 2010, 11, 2027-2032.	2.6	27
56	Post-CMOS Fabrication of Working Electrodes for On-Chip Recordings of Transmitter Release. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010, 4, 86-92.	2.7	24
57	F-Actin and Myosin II Accelerate Catecholamine Release from Chromaffin Granules. <i>Journal of Neuroscience</i> , 2009, 29, 863-870.	1.7	97
58	Improved Surface-Patterned Platinum Microelectrodes for the Study of Exocytotic Events. <i>Analytical Chemistry</i> , 2009, 81, 8734-8740.	3.2	56
59	A Role For Protein Phosphorylation In Fusion Pore Opening And Transmitter Release. <i>Biophysical Journal</i> , 2009, 96, 101a-102a.	0.2	0
60	A Novel Approach For Wireless Communication Of In Vivo Data From Freely Moving Research Animals. <i>Biophysical Journal</i> , 2009, 96, 102a.	0.2	0
61	Dissociation Behavior of Weak Polyelectrolyte Brushes on a Planar Surface. <i>Langmuir</i> , 2009, 25, 4774-4779.	1.6	161
62	Tethering Forces of Secretory Granules Measured with Optical Tweezers. <i>Biophysical Journal</i> , 2008, 95, 4972-4978.	0.2	4
63	The role of the C terminus of the SNARE protein SNAP-25 in fusion pore opening and a model for fusion pore mechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15388-15392.	3.3	101
64	Fusion Gains Independence. <i>Journal of General Physiology</i> , 2008, 132, 9-11.	0.9	1
65	Design of a CMOS Potentiostat Circuit for Electrochemical Detector Arrays. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2007, 54, 736-744.	3.5	97
66	Exocytotic catecholamine release is not associated with cation flux through channels in the vesicle membrane but Na ⁺ influx through the fusion pore. <i>Nature Cell Biology</i> , 2007, 9, 915-922.	4.6	45
67	Patterned Biofunctional Poly(acrylic acid) Brushes on Silicon Surfaces. <i>Biomacromolecules</i> , 2007, 8, 3082-3092.	2.6	140
68	Patch amperometry: high-resolution measurements of single-vesicle fusion and release. <i>Nature Methods</i> , 2005, 2, 699-708.	9.0	62
69	Phosphatidylinositol phosphate kinase type I α regulates dynamics of large dense-core vesicle fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5204-5209.	3.3	96
70	Electrochemical imaging of fusion pore openings by electrochemical detector arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13879-13884.	3.3	134
71	The fusion pore. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2003, 1641, 167-173.	1.9	142
72	Exocytosis of single chromaffin granules in cell-free inside-out membrane patches. <i>Nature Cell Biology</i> , 2003, 5, 358-362.	4.6	68

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73	Differential Regulation of Exocytotic Fusion and Granule-Granule Fusion in Eosinophils by Ca ²⁺ and GTP Analogs. <i>Journal of Biological Chemistry</i> , 2003, 278, 44929-44934.	1.6	19
74	Compound Exocytosis and Cumulative Fusion in Eosinophils. <i>Journal of Biological Chemistry</i> , 2003, 278, 44921-44928.	1.6	66
75	Synaptotagmin Function Illuminated. <i>Journal of General Physiology</i> , 2003, 122, 251-254.	0.9	5
76	Secretory Vesicles Membrane Area Is Regulated in Tandem with Quantal Size in Chromaffin Cells. <i>Journal of Neuroscience</i> , 2003, 23, 7917-7921.	1.7	107
77	Intracellular Patch Electrochemistry: Regulation of Cytosolic Catecholamines in Chromaffin Cells. <i>Journal of Neuroscience</i> , 2003, 23, 5835-5845.	1.7	126
78	An electrochemical detector array to study cell biology on the nanoscale. <i>Nanotechnology</i> , 2002, 13, 285-289.	1.3	62
79	Robust, High-Resolution, Whole Cell Patch-Clamp Capacitance Measurements Using Square Wave Stimulation. <i>Biophysical Journal</i> , 2001, 81, 937-948.	0.2	32
80	Voltage-Dependent Membrane Capacitance in Rat Pituitary Nerve Terminals Due to Gating Currents. <i>Biophysical Journal</i> , 2001, 80, 1220-1229.	0.2	21
81	Exocytosis of Catecholamine (CA)-containing and CA-free Granules in Chromaffin Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 39974-39979.	1.6	31
82	Resolution of Patch Capacitance Recordings and of Fusion Pore Conductances in Small Vesicles. <i>Biophysical Journal</i> , 2000, 78, 2983-2997.	0.2	72
83	High calcium concentrations shift the mode of exocytosis to the kiss-and-run mechanism. <i>Nature Cell Biology</i> , 1999, 1, 40-44.	4.6	386
84	Membrane capacitance techniques to monitor granule exocytosis in neutrophils. <i>Journal of Immunological Methods</i> , 1999, 232, 111-120.	0.6	53
85	Capacitance Flickers and Pseudoflickers of Small Granules, Measured in the Cell-Attached Configuration. <i>Biophysical Journal</i> , 1998, 75, 53-59.	0.2	48
86	Mechanism of Peptide-induced Mast Cell Degranulation. <i>Journal of General Physiology</i> , 1998, 112, 577-591.	0.9	94
87	Exocytotic Competence and Intergranular Fusion in Cord Blood-Derived Eosinophils During Differentiation. <i>Blood</i> , 1997, 89, 510-517.	0.6	15
88	Structure and function of fusion pores in exocytosis and ectoplasmic membrane fusion. <i>Current Opinion in Cell Biology</i> , 1995, 7, 509-517.	2.6	244
89	A novel Ca ²⁺ -dependent step in exocytosis subsequent to vesicle fusion. <i>FEBS Letters</i> , 1995, 363, 217-220.	1.3	66
90	Three Distinct Fusion Processes during Eosinophil Degranulation. <i>Annals of the New York Academy of Sciences</i> , 1994, 710, 232-247.	1.8	13

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91	12 Exocytosis and endocytosis in single peptidergic nerve terminals. <i>Advances in Second Messenger and Phosphoprotein Research</i> , 1994, 29, 173-187.	4.5	7
92	Time-resolved capacitance measurements: monitoring exocytosis in single cells. <i>Quarterly Reviews of Biophysics</i> , 1991, 24, 75-101.	2.4	90
93	Techniques and concepts in exocytosis: focus on mast cells. <i>BBA - Biomembranes</i> , 1991, 1071, 429-471.	7.9	102
94	GTP γ S-induced calcium transients and exocytosis in human neutrophils. <i>Bioscience Reports</i> , 1990, 10, 93-103.	1.1	17
95	Patch-clamp capacitance measurements: A tool for investigating the second messengers regulating exocytosis. <i>The Protein Journal</i> , 1989, 8, 438-441.	1.1	0
96	Patch-clamp techniques for time-resolved capacitance measurements in single cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1988, 411, 137-146.	1.3	590
97	Pertussis toxin does not affect the time course of exocytosis in mast cells stimulated by intracellular application of GTP γ S. <i>FEBS Letters</i> , 1987, 222, 317-321.	1.3	23