

# Lionel G Nowak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1025930/publications.pdf>

Version: 2024-02-01

21  
papers

1,675  
citations

759233

12  
h-index

752698

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1620  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrophysiological Classes of Cat Primary Visual Cortical Neurons In Vivo as Revealed by Quantitative Analyses. <i>Journal of Neurophysiology</i> , 2003, 89, 1541-1566.	1.8	361
2	Cellular Mechanisms of Long-Lasting Adaptation in Visual Cortical Neurons <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2000, 20, 4286-4299.	3.6	289
3	Membrane Mechanisms Underlying Contrast Adaptation in Cat Area 17 <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2000, 20, 4267-4285.	3.6	270
4	Ionic Mechanisms Underlying Repetitive High-Frequency Burst Firing in Supragranular Cortical Neurons. <i>Journal of Neuroscience</i> , 2000, 20, 4829-4843.	3.6	199
5	Parallel versus serial processing: new vistas on the distributed organization of the visual system. <i>Current Opinion in Neurobiology</i> , 1995, 5, 497-503.	4.2	196
6	Spread of stimulating current in the cortical grey matter of rat visual cortex studied on a new in vitro slice preparation. <i>Journal of Neuroscience Methods</i> , 1996, 67, 237-248.	2.5	85
7	Impact of Cortical Network Activity on Short-term Synaptic Depression. <i>Cerebral Cortex</i> , 2006, 16, 688-695.	2.9	70
8	Identification of altered brain metabolites associated with <i>scn</i> TNAP activity in a mouse model of hypophosphatasia using untargeted <i>scn</i> NMR-based metabolomics analysis. <i>Journal of Neurochemistry</i> , 2017, 140, 919-940.	3.9	34
9	Power-Law Input-Output Transfer Functions Explain the Contrast-Response and Tuning Properties of Neurons in Visual Cortex. <i>PLoS Computational Biology</i> , 2011, 7, e1001078.	3.2	30
10	Role of Synaptic and Intrinsic Membrane Properties in Short-Term Receptive Field Dynamics in Cat Area 17. <i>Journal of Neuroscience</i> , 2005, 25, 1866-1880.	3.6	24
11	Contrast Adaptation Contributes to Contrast-Invariance of Orientation Tuning of Primate V1 Cells. <i>PLoS ONE</i> , 2009, 4, e4781.	2.5	24
12	Tetramisole and Levamisole Suppress Neuronal Activity Independently from Their Inhibitory Action on Tissue Non-specific Alkaline Phosphatase in Mouse Cortex. <i>Sub-Cellular Biochemistry</i> , 2015, 76, 239-281.	2.4	17
13	Neuronal spiking activity highlights a gradient of epileptogenicity in human tuberous sclerosis lesions. <i>Clinical Neurophysiology</i> , 2019, 130, 537-547.	1.5	16
14	Recording local field potential and neuronal activity with tetrodes in epileptic patients. <i>Journal of Neuroscience Methods</i> , 2020, 341, 108759.	2.5	15
15	Spatial and Temporal Features of Synaptic to Discharge Receptive Field Transformation in Cat Area 17. <i>Journal of Neurophysiology</i> , 2010, 103, 677-697.	1.8	13
16	Effect of adenosine on short-term synaptic plasticity in mouse piriform cortex <i>in vitro</i> : adenosine acts as a high-pass filter. <i>Physiological Reports</i> , 2019, 7, e13992.	1.7	9
17	Effects of contrast and contrast adaptation on static receptive field features in macaque area V1. <i>Journal of Neurophysiology</i> , 2012, 108, 2033-2050.	1.8	7
18	In vitro study of the catecholaminergic metabolism of locus coeruleus neurones by differential normal pulse voltammetry. <i>Journal of Neuroscience Methods</i> , 1995, 63, 103-112.	2.5	5

#	ARTICLE	IF	CITATIONS
19	Prominent facilitation at beta and gamma frequency range revealed with physiological calcium concentration in adult mouse piriform cortex in vitro. PLoS ONE, 2017, 12, e0183246.	2.5	5
20	Nanofibrous PEDOT-Carbon Composite on Flexible Probes for Soft Neural Interfacing. Frontiers in Bioengineering and Biotechnology, 2021, 9, 780197.	4.1	5
21	Inhibitors of ectonucleotidases have paradoxical effects on synaptic transmission in the mouse cortex. Journal of Neurochemistry, 2022, 160, 305-324.	3.9	0