

# Noam E Ziv

## List of Publications by Year in descending order

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59  
papers

5,344  
citations

126907

33  
h-index

138484

58  
g-index

146  
all docs

146  
docs citations

146  
times ranked

4770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a Role of Dendritic Filopodia in Synaptogenesis and Spine Formation. <i>Neuron</i> , 1996, 17, 91-102.	8.1	800
2	Assembly of New Individual Excitatory Synapses. <i>Neuron</i> , 2000, 27, 57-69.	8.1	454
3	Assembling the Presynaptic Active Zone. <i>Neuron</i> , 2001, 29, 131-143.	8.1	372
4	Unitary Assembly of Presynaptic Active Zones from Piccolo-Bassoon Transport Vesicles. <i>Neuron</i> , 2003, 38, 237-252.	8.1	285
5	Cellular and molecular mechanisms of presynaptic assembly. <i>Nature Reviews Neuroscience</i> , 2004, 5, 385-399.	10.2	269
6	Metabolic Turnover of Synaptic Proteins: Kinetics, Interdependencies and Implications for Synaptic Maintenance. <i>PLoS ONE</i> , 2013, 8, e63191.	2.5	176
7	Molecular mechanisms of CNS synaptogenesis. <i>Trends in Neurosciences</i> , 2002, 25, 243-250.	8.6	172
8	Long-Term Relationships between Synaptic Tenacity, Synaptic Remodeling, and Network Activity. <i>PLoS Biology</i> , 2009, 7, e1000136.	5.6	153
9	Postsynaptic Density Assembly Is Fundamentally Different from Presynaptic Active Zone Assembly. <i>Journal of Neuroscience</i> , 2004, 24, 1507-1520.	3.6	151
10	Local Sharing as a Predominant Determinant of Synaptic Matrix Molecular Dynamics. <i>PLoS Biology</i> , 2006, 4, e271.	5.6	151
11	Use of 2,3-Naphthalenedicarboxaldehyde Derivatization for Single-Cell Analysis of Glutathione by Capillary Electrophoresis and Histochemical Localization by Fluorescence Microscopy. <i>Analytical Chemistry</i> , 1995, 67, 4261-4268.	6.5	129
12	The roles of protein expression in synaptic plasticity and memory consolidation. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 86.	2.9	125
13	Localized and Transient Elevations of Intracellular Ca <sup>2+</sup> Induce the Dedifferentiation of Axonal Segments into Growth Cones. <i>Journal of Neuroscience</i> , 1997, 17, 3568-3579.	3.6	124
14	Potentiation of Evoked Vesicle Turnover at Individually Resolved Synaptic Boutons. <i>Neuron</i> , 1996, 17, 125-134.	8.1	103
15	The Dynamics of SAP90/PSD-95 Recruitment to New Synaptic Junctions. <i>Molecular and Cellular Neurosciences</i> , 2001, 18, 149-167.	2.2	103
16	Spine dynamics in the brain, mental disorders and artificial neural networks. <i>Nature Reviews Neuroscience</i> , 2021, 22, 407-422.	10.2	89
17	Assembly of Active Zone Precursor Vesicles. <i>Journal of Biological Chemistry</i> , 2006, 281, 6038-6047.	3.4	88
18	Spatiotemporal Distribution of Ca <sup>2+</sup> Following Axotomy and Throughout the Recovery Process of Cultured Aplysia Neurons. <i>European Journal of Neuroscience</i> , 1993, 5, 657-668.	2.6	87

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19	Dynein light chain regulates axonal trafficking and synaptic levels of Bassoon. <i>Journal of Cell Biology</i> , 2009, 185, 341-355.	5.2	85
20	Formation of Golgi-Derived Active Zone Precursor Vesicles. <i>Journal of Neuroscience</i> , 2012, 32, 11095-11108.	3.6	82
21	Synaptic Tenacity or Lack Thereof: Spontaneous Remodeling of Synapses. <i>Trends in Neurosciences</i> , 2018, 41, 89-99.	8.6	80
22	Molecular Dynamics of a Presynaptic Active Zone Protein Studied in Munc13-1-Enhanced Yellow Fluorescent Protein Knock-In Mutant Mice. <i>Journal of Neuroscience</i> , 2006, 26, 13054-13066.	3.6	77
23	Dopamine-Induced Dispersion of Correlations Between Action Potentials in Networks of Cortical Neurons. <i>Journal of Neurophysiology</i> , 2004, 92, 1817-1824.	1.8	73
24	Evolution of Action Potential Propagation and Repolarization in Cultured Neonatal Rat Ventricular Myocytes. <i>Journal of Cardiovascular Electrophysiology</i> , 2001, 12, 1269-1277.	1.7	71
25	Synaptic Size Dynamics as an Effectively Stochastic Process. <i>PLoS Computational Biology</i> , 2014, 10, e1003846.	3.2	68
26	Principles of glutamatergic synapse formation: seeing the forest for the trees. <i>Current Opinion in Neurobiology</i> , 2001, 11, 536-543.	4.2	66
27	Synapse development: still looking for the forest, still lost in the trees. <i>Cell and Tissue Research</i> , 2006, 326, 249-262.	2.9	61
28	The effects of proteasomal inhibition on synaptic proteostasis. <i>EMBO Journal</i> , 2016, 35, 2238-2262.	7.8	61
29	Syntaxin1A Lateral Diffusion Reveals Transient and Local SNARE Interactions. <i>Journal of Neuroscience</i> , 2011, 31, 17590-17602.	3.6	59
30	Reduced SNAP-25 increases PSD-95 mobility and impairs spine morphogenesis. <i>Cell Death and Differentiation</i> , 2015, 22, 1425-1436.	11.2	59
31	Exchange and Redistribution Dynamics of the Cytoskeleton of the Active Zone Molecule Bassoon. <i>Journal of Neuroscience</i> , 2009, 29, 351-358.	3.6	54
32	Activity Dependent and Independent Determinants of Synaptic Size Diversity. <i>Journal of Neuroscience</i> , 2020, 40, 2828-2848.	3.6	43
33	Relative Contributions of Specific Activity Histories and Spontaneous Processes to Size Remodeling of Glutamatergic Synapses. <i>PLoS Biology</i> , 2016, 14, e1002572.	5.6	42
34	Use of Aplysia neurons for the study of cellular alterations and the resealing of transected axons in vitro. <i>Journal of Neuroscience Methods</i> , 1996, 69, 91-102.	2.5	40
35	Presynaptic and Postsynaptic Scaffolds. <i>Neuroscientist</i> , 2014, 20, 439-452.	3.5	39
36	Enhancement of neural representation capacity by modular architecture in networks of cortical neurons. <i>European Journal of Neuroscience</i> , 2012, 35, 1753-1760.	2.6	38

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37	Recent insights on principles of synaptic protein degradation. <i>F1000Research</i> , 2017, 6, 675.	1.6	37
38	Induction of Growth Cone Formation by Transient and Localized Increases of Intracellular Proteolytic Activity. <i>Journal of Cell Biology</i> , 1998, 140, 223-232.	5.2	32
39	Use Dependence of Presynaptic Tenacity. <i>Journal of Neuroscience</i> , 2011, 31, 16770-16780.	3.6	29
40	Neuroigin-1 Loss Is Associated with Reduced Tenacity of Excitatory Synapses. <i>PLoS ONE</i> , 2012, 7, e42314.	2.5	29
41	Characterization of the neuroprotective activity of rasagiline in cerebellar granule cells. <i>Neuropharmacology</i> , 2005, 48, 406-416.	4.1	28
42	Remodeling and Tenacity of Inhibitory Synapses: Relationships with Network Activity and Neighboring Excitatory Synapses. <i>PLoS Computational Biology</i> , 2015, 11, e1004632.	3.2	28
43	Neuronal and synaptic protein lifetimes. <i>Current Opinion in Neurobiology</i> , 2019, 57, 9-16.	4.2	28
44	Long-term Relationships between Cholinergic Tone, Synchronous Bursting and Synaptic Remodeling. <i>PLoS ONE</i> , 2012, 7, e40980.	2.5	26
45	Cooperative stochastic binding and unbinding explain synaptic size dynamics and statistics. <i>PLoS Computational Biology</i> , 2017, 13, e1005668.	3.2	24
46	Adaptation to prolonged neuromodulation in cortical cultures: an invariable return to network synchrony. <i>BMC Biology</i> , 2014, 12, 83.	3.8	22
47	New tricks and old spines. <i>Nature</i> , 2009, 462, 859-861.	27.8	20
48	Impulse conduction and gap junctional remodelling by endothelin-1 in cultured neonatal rat ventricular myocytes. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 562-573.	3.6	19
49	Matching Dynamics of Presynaptic and Postsynaptic Scaffolds. <i>Journal of Neuroscience</i> , 2013, 33, 13094-13100.	3.6	19
50	Site-specific ubiquitination of pathogenic huntingtin attenuates its deleterious effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18661-18669.	7.1	18
51	Maintaining the active zone: Demand, supply and disposal of core active zone proteins. <i>Neuroscience Research</i> , 2018, 127, 70-77.	1.9	14
52	Patient-Derived Anti-NMDAR Antibody Disinhibits Cortical Neuronal Networks through Dysfunction of Inhibitory Neuron Output. <i>Journal of Neuroscience</i> , 2022, 42, 3253-3270.	3.6	12
53	Recruitment of Synaptic Molecules during Synaptogenesis. <i>Neuroscientist</i> , 2001, 7, 365-370.	3.5	11
54	Closed Loop Experiment Manager (CLEM) – An Open and Inexpensive Solution for Multichannel Electrophysiological Recordings and Closed Loop Experiments. <i>Frontiers in Neuroscience</i> , 2017, 11, 579.	2.8	7

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55	A possible non-proteolytic role of ubiquitin conjugation in alleviating the pathology of Huntingtin <sup>™</sup> s aggregation. Cell Death and Differentiation, 2021, 28, 814-817.	11.2	4
56	A non-fluorescent HaloTag blocker for improved measurement and visualization of protein synthesis in living cells. F1000Research, 2020, 9, 302.	1.6	4
57	Hebb and the art of spine remodeling. F1000 Biology Reports, 2010, 2, 69.	4.0	1
58	Imaging-Based Measures of Synaptic Tenacity. Neuromethods, 2014, , 161-185.	0.3	1
59	A non-fluorescent HaloTag blocker for improved measurement and visualization of protein synthesis in living cells. F1000Research, 2020, 9, 302.	1.6	1