Eran Perlson

List of Publications by Year
in descending order

50 papers	3,267 citations	218677 26 h-index	197818 49 g-index
55 all docs	55 docs citations	55 times ranked	4158 citing authors

#	Article	IF	Citations
1	Vimentin-Dependent Spatial Translocation of an Activated MAP Kinase in Injured Nerve. Neuron, 2005, 45, 715-726.	8.1	483
2	Axoplasmic Importins Enable Retrograde Injury Signaling in Lesioned Nerve. Neuron, 2003, 40, 1095-1104.	8.1	459
3	Retrograde axonal transport: pathways to cell death?. Trends in Neurosciences, 2010, 33, 335-344.	8.6	302
4	A Switch in Retrograde Signaling from Survival to Stress in Rapid-Onset Neurodegeneration. Journal of Neuroscience, 2009, 29, 9903-9917.	3.6	168
5	Vimentin Binding to Phosphorylated Erk Sterically Hinders Enzymatic Dephosphorylation of the Kinase. Journal of Molecular Biology, 2006, 364, 938-944.	4.2	141
6	Spatial aspects of GDNF functions revealed in a compartmentalized microfluidic neuromuscular co-culture system. Journal of Cell Science, 2015, 128, 1241-52.	2.0	137
7	Single-Particle Diffusion Characterization by Deep Learning. Biophysical Journal, 2019, 117, 185-192.	0.5	121
8	Dynein Tethers and Stabilizes Dynamic Microtubule Plus Ends. Current Biology, 2012, 22, 632-637.	3.9	102
9	Rabies Virus Hijacks and Accelerates the p75NTR Retrograde Axonal Transport Machinery. PLoS Pathogens, 2014, 10, e1004348.	4.7	96
10	ALS Along the Axons â€“ Expression of Coding and Noncoding RNA Differs in Axons of ALS models. Scientific Reports, 2017, 7, 44500.	3.3	92
11	Compartmental microfluidic system for studying muscleâ€“neuron communication and neuromuscular junction maintenance. European Journal of Cell Biology, 2016, 95, 69-88.	3.6	86
12	Neurodegeneration and Alzheimer's disease (AD). What Can Proteomics Tell Us About the Alzheimer's Brain?. Molecular and Cellular Proteomics, 2016, 15, 409-425.	3.8	79
13	Long-distance Axonal Transport of AAV9 Is Driven by Dynein and Kinesin-2 and Is Trafficked in a Highly Motile Rab7-positive Compartment. Molecular Therapy, 2014, 22, 554-566.	8.2	74
14	Targeting the Sigma-1 Receptor via Pridopidine Ameliorates Central Features of ALS Pathology in a SOD1G93A Model. Cell Death and Disease, 2019, 10, 210.	6.3	71
15	Axonal TDP-43 condensates drive neuromuscular junction disruption through inhibition of local synthesis of nuclear encoded mitochondrial proteins. Nature Communications, 2021, 12, 6914.	12.8	67
16	COPII collar defines the boundary between ER and ER exit site and does not coat cargo containers. Journal of Cell Biology, 2021, 220, .	5.2	61
17	Differential Proteomics Reveals Multiple Components in Retrogradely Transported Axoplasm After Nerve Injury. Molecular and Cellular Proteomics, 2004, 3, 510-520.	3.8	54
18	From snails to sciatic nerve: Retrograde injury signaling from axon to soma in lesioned neurons. Journal of Neurobiology, 2004, 58, 287-294.	3.6	53

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19	Anterograde Glycoprotein-Dependent Transport of Newly Generated Rabies Virus in Dorsal Root Ganglion Neurons. Journal of Virology, 2014, 88, 14172-14183.	3.4	43
20	miR126-5p Downregulation Facilitates Axon Degeneration and NMJ Disruption via a Nonâ€“Cell-Autonomous Mechanism in ALS. Journal of Neuroscience, 2018, 38, 5478-5494.	3.6	42
21	Dynein Interacts with the Neural Cell Adhesion Molecule (NCAM180) to Tether Dynamic Microtubules and Maintain Synaptic Density in Cortical Neurons. Journal of Biological Chemistry, 2013, 288, 27812-27824.	3.4	39
22	Developmental Axon Pruning Requires Destabilization of Cell Adhesion by JNK Signaling. Neuron, 2015, 88, 926-940.	8.1	37
23	The receptor tyrosine kinase TrkB signals without dimerization at the plasma membrane. Science Signaling, 2018, 11, .	3.6	37
24	Localization of RNAi Machinery to Axonal Branch Points and Growth Cones Is Facilitated by Mitochondria and Is Disrupted in ALS. Frontiers in Molecular Neuroscience, 2018, 11, 311.	2.9	35
25	Structural Principles in Robo Activation and Auto-inhibition. Cell, 2019, 177, 272-285.e16.	28.9	34
26	<scp>CRMP</scp> 2 mediates Sema3Fâ€dependent axon pruning and dendritic spine remodeling. EMBO Reports, 2020, 21, e48512.	4.5	33
27	Phosphatidylserine Ameliorates Neurodegenerative Symptoms and Enhances Axonal Transport in a Mouse Model of Familial Dysautonomia. PLoS Genetics, 2016, 12, e1006486.	3.5	31
28	High content image analysis reveals function of miR-124 upstream of Vimentin in regulating motor neuron mitochondria. Scientific Reports, 2018, 8, 59.	3.3	30
29	A Dynein Light Chain 1 Binding Motif in Rabies Virus Polymerase L Protein Plays a Role in Microtubule Reorganization and Viral Primary Transcription. Journal of Virology, 2015, 89, 9591-9600.	3.4	27
30	Proteomic Analysis of Dynein-Interacting Proteins in Amyotrophic Lateral Sclerosis Synaptosomes Reveals Alterations in the RNA-Binding Protein Staufen1. Molecular and Cellular Proteomics, 2016, 15, 506-522.	3.8	27
31	Retrograde Degenerative Signaling Mediated by the p75 Neurotrophin Receptor Requires p150Glued Deacetylation by Axonal HDAC1. Developmental Cell, 2018, 46, 376-387.e7.	7.0	23
32	In vitro compartmental system underlines the contribution of mitochondrial immobility to the ATP supply in the NMJ. Journal of Cell Science, 2019, 132, .	2.0	23
33	Tracking Quantum-Dot labeled neurotropic factors transport along primary neuronal axons in compartmental microfluidic chambers. Methods in Cell Biology, 2016, 131, 365-387.	1.1	21
34	Spatialâ€specific functions in retrograde neuronal signalling. Traffic, 2017, 18, 415-424.	2.7	19
35	Flow Arrest in the Plasma Membrane. Biophysical Journal, 2019, 117, 810-816.	0.5	19
36	Amyotrophic Lateral Sclerosis as a Spatiotemporal Mislocalization Disease: Location, Location, Location. International Review of Cell and Molecular Biology, 2015, 315, 23-71.	3.2	18

#	Article	IF	Citations
37	A CRMP4â€dependent retrograde axonâ€toâ€soma death signal in amyotrophic lateral sclerosis. EMBO Journal, 2021, 40, e107586.	7.8	10
38	Co-transport of the nuclear-encoded Cox7c mRNA with mitochondria along axons occurs through a coding-region-dependent mechanism. Journal of Cell Science, 2022, 135, .	2.0	10
39	Multimodal single-molecule microscopy with continuously controlled spectral resolution. Biophysical Reports, 2021, 1, 100013.	1.2	9
40	Patient-derived co-cultures for studying ALS. Nature Biomedical Engineering, 2019, 3, 13-14.	22.5	6
41	Axonal Transport of Organelles in Motor Neuron Cultures using Microfluidic Chambers System. Journal of Visualized Experiments, 2020, , .	0.3	6
42	Phosphatidylserine improves axonal transport by inhibition of HDAC and has potential in treatment of neurodegenerative diseases. Neural Regeneration Research, 2017, 12, 534.	3.0	6
43	Muscle secretion of toxic factors, regulated by miR126-5p, facilitates motor neuron degeneration in amyotrophic lateral sclerosis. Neural Regeneration Research, 2019, 14, 969.	3.0	6
44	Receptor-mediated increase in rabies virus axonal transport. Neural Regeneration Research, 2015, 10, 883.	3.0	5
45	Myosin Learns to Recruit AMPA Receptors. Cell, 2008, 135, 414-415.	28.9	3
46	Efficient gene transfer into primary muscle cells to analyze nerve-independent postsynaptic organization in vitro. Neuromuscular Disorders, 2019, 29, 533-542.	0.6	3
47	Neuromuscular junction mitochondrial enrichment: a â€œdouble-edged swordâ€•underlying the selective motor neuron vulnerability in amyotrophic lateral sclerosis. Neural Regeneration Research, 2021, 16, 115.	3.0	3
48	Neuronal Activity in the Sciatic Nerve Is Accompanied by Immediate Cytoskeletal Changes. Frontiers in Molecular Neuroscience, 2021, 14, 757264.	2.9	3
49	Microfluidic Neuromuscular Co-culture System for Tracking Cell-to-Cell Transfer and Axonal Transport of Labeled Proteins. Methods in Molecular Biology, 2022, 2431, 145-161.	0.9	3
50	Communication Languages and Agents in Biological Systems. , 2017, , 411-448.		0