

Leonid L Moroz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3033676/publications.pdf>

Version: 2024-02-01

118
papers

8,679
citations

47006

47
h-index

51608

86
g-index

135
all docs

135
docs citations

135
times ranked

7148
citing authors

#	ARTICLE	IF	CITATIONS
1	The ctenophore genome and the evolutionary origins of neural systems. <i>Nature</i> , 2014, 510, 109-114.	27.8	606
2	Deuterostome phylogeny reveals monophyletic chordates and the new phylum Xenoturbellida. <i>Nature</i> , 2006, 444, 85-88.	27.8	528
3	Phylogenomics reveals deep molluscan relationships. <i>Nature</i> , 2011, 477, 452-456.	27.8	420
4	Acoelomorph flatworms are deuterostomes related to Xenoturbella. <i>Nature</i> , 2011, 470, 255-258.	27.8	400
5	Simple cDNA normalization using kamchatka crab duplex-specific nuclease. <i>Nucleic Acids Research</i> , 2004, 32, 37e-37.	14.5	375
6	Neuronal Transcriptome of Aplysia: Neuronal Compartments and Circuitry. <i>Cell</i> , 2006, 127, 1453-1467.	28.9	310
7	Error, signal, and the placement of Ctenophora sister to all other animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5773-5778.	7.1	279
8	Ctenophore relationships and their placement as the sister group to all other animals. <i>Nature Ecology and Evolution</i> , 2017, 1, 1737-1746.	7.8	202
9	Modulation of ion channels in rod photoreceptors by nitric oxide. <i>Neuron</i> , 1994, 13, 315-324.	8.1	193
10	Interfering with Nitric Oxide Measurements. <i>Journal of Biological Chemistry</i> , 2002, 277, 48472-48478.	3.4	177
11	On the Independent Origins of Complex Brains and Neurons. <i>Brain, Behavior and Evolution</i> , 2009, 74, 177-190.	1.7	166
12	Phylogenomics of Lophotrochozoa with Consideration of Systematic Error. <i>Systematic Biology</i> , 2017, 66, syw079.	5.6	164
13	Is nitric oxide (NO) produced by invertebrate neurones?. <i>NeuroReport</i> , 1993, 4, 279-282.	1.2	150
14	PhyloTreePruner: A Phylogenetic Tree-Based Approach for selection of Orthologous sequences for phylogenomics. <i>Evolutionary Bioinformatics</i> , 2013, 9, EBO.S12813.	1.2	141
15	Independent origins of neurons and synapses: insights from ctenophores. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150041.	4.0	140
16	Nitric oxide activates buccal motor patterns in <i>Lymnaea stagnalis</i> . <i>NeuroReport</i> , 1993, 4, 643-646.	1.2	139
17	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. <i>Science</i> , 2021, 372, 984-989.	12.6	132
18	The origin of Metazoa: a transition from temporal to spatial cell differentiation. <i>BioEssays</i> , 2009, 31, 758-768.	2.5	125

#	ARTICLE	IF	CITATIONS
19	Profiling cellular diversity in sponges informs animal cell type and nervous system evolution. <i>Science</i> , 2021, 374, 717-723.	12.6	111
20	Convergent evolution of neural systems in ctenophores. <i>Journal of Experimental Biology</i> , 2015, 218, 598-611.	1.7	105
21	Regulation of Neuronal Excitability by Interaction of Fragile X Mental Retardation Protein with Slack Potassium Channels. <i>Journal of Neuroscience</i> , 2012, 32, 15318-15327.	3.6	104
22	Single Neuron Analysis by Capillary Electrophoresis with Fluorescence Spectroscopy. <i>Neuron</i> , 1998, 20, 173-181.	8.1	103
23	Signaling mechanisms underlying metamorphic transitions in animals. <i>Integrative and Comparative Biology</i> , 2006, 46, 743-759.	2.0	103
24	Cross-kingdom hormonal signaling: an insight from thyroid hormone functions in marine larvae. <i>Journal of Experimental Biology</i> , 2005, 208, 4355-4361.	1.7	98
25	The Global Invertebrate Genomics Alliance (GIGA): Developing Community Resources to Study Diverse Invertebrate Genomes. <i>Journal of Heredity</i> , 2014, 105, 1-18.	2.4	96
26	Nitric oxide synthase-immunoreactive cells in the CNS and periphery of <i>Lymnaea</i> . <i>NeuroReport</i> , 1994, 5, 1277-1280.	1.2	92
27	Somatotopic organization and functional properties of mechanosensory neurons expressing sensorin mRNA in <i>Aplysia californica</i> . <i>Journal of Comparative Neurology</i> , 2004, 471, 219-240.	1.6	82
28	Ascorbic Acid Assays of Individual Neurons and Neuronal Tissues Using Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2002, 74, 5614-5620.	6.5	76
29	Nitric Oxide Synthase Activity in the Molluscan CNS. <i>Journal of Neurochemistry</i> , 1996, 66, 873-876.	3.9	76
30	NADPH-diaphorase localization in the CNS and peripheral tissues of the predatory sea-slug <i>Pleurobranchaea californica</i> . <i>Journal of Comparative Neurology</i> , 1996, 367, 607-622.	1.6	70
31	Molecular beacons for bioanalytical applications. <i>Analyst</i> , 2005, 130, 1002.	3.5	69
32	Thyroid hormone metabolism and peroxidase function in two non-chordate animals. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2006, 306B, 551-566.	1.3	69
33	Molluscan Memory of Injury: Evolutionary Insights into Chronic Pain and Neurological Disorders. <i>Brain, Behavior and Evolution</i> , 2009, 74, 206-218.	1.7	69
34	<i>Aplysia</i> . <i>Current Biology</i> , 2011, 21, R60-R61.	3.9	68
35	Developmental transcriptome of <i>Aplysia californica</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2011, 316B, 113-134.	1.3	67
36	Do different neurons age differently? Direct genome-wide analysis of aging in single identified cholinergic neurons. <i>Frontiers in Aging Neuroscience</i> , 2010, 2, .	3.4	65

#	ARTICLE	IF	CITATIONS
37	Complete DNA sequence of the mitochondrial genome of the sea-slug, <i>Aplysia californica</i> : Conservation of the gene order in <i>Euthyneura</i> . <i>Molecular Phylogenetics and Evolution</i> , 2006, 38, 459-469.	2.7	64
38	Non-Enzymatic Production of Nitric Oxide (NO) from NO Synthase Inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 1998, 253, 571-576.	2.1	62
39	Nitrite and Nitrate Levels in Individual Molluscan Neurons: Single-Cell Capillary Electrophoresis Analysis. <i>Journal of Neurochemistry</i> , 1997, 69, 110-115.	3.9	62
40	Molecular Characterization of NMDA-Like Receptors in <i>Aplysia</i> and <i>Lymnaea</i> : Relevance to Memory Mechanisms. <i>Biological Bulletin</i> , 2006, 210, 255-270.	1.8	61
41	Neural versus alternative integrative systems: molecular insights into origins of neurotransmitters. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190762.	4.0	61
42	Localization of putative nitroergic neurons in peripheral chemosensory areas and the central nervous system of <i>Aplysia californica</i> . <i>Journal of Comparative Neurology</i> , 2006, 495, 10-20.	1.6	59
43	Nitric oxide regulates swimming in the jellyfish <i>Aequorea victoria</i> . <i>Journal of Comparative Neurology</i> , 2004, 471, 26-36.	1.6	57
44	Role of Nitric Oxide in Classical Conditioning of Siphon Withdrawal in <i>Aplysia</i> . <i>Journal of Neuroscience</i> , 2007, 27, 10993-11002.	3.6	57
45	Capillary Electrophoresis Analysis of Nitric Oxide Synthase Related Metabolites in Single Identified Neurons. <i>Analytical Chemistry</i> , 1998, 70, 2243-2247.	6.5	56
46	A sisterly dispute. <i>Nature</i> , 2016, 529, 286-287.	27.8	54
47	Distribution of NADPH-diaphorase reactivity and effects of nitric oxide on feeding and locomotory circuitry in the pteropod mollusc, <i>Clione limacina</i> . <i>Journal of Comparative Neurology</i> , 2000, 427, 274-284.	1.6	53
48	Cephalopod genomics: A plan of strategies and organization. <i>Standards in Genomic Sciences</i> , 2012, 7, 175-188.	1.5	53
49	Direct single cell determination of nitric oxide synthase related metabolites in identified nitroergic neurons. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 929-939.	3.5	52
50	Parallel evolution of Nitric Oxide signaling: Diversity of synthesis and memory pathways. <i>Frontiers in Bioscience - Landmark</i> , 2011, 16, 2008.	3.0	52
51	Serotonin immunoreactivity in the central nervous system of the marine molluscs <i>Pleurobranchaea californica</i> and <i>Tritonia diomedea</i> . <i>Journal of Comparative Neurology</i> , 1998, 395, 466-480.	1.6	50
52	Serotonin-immunoreactivity in peripheral tissues of the opisthobranch molluscs <i>Pleurobranchaea californica</i> and <i>Tritonia diomedea</i> . <i>Journal of Comparative Neurology</i> , 1997, 382, 176-188.	1.6	49
53	Single-Neuron Transcriptome and Methylome Sequencing for Epigenomic Analysis of Aging. <i>Methods in Molecular Biology</i> , 2013, 1048, 323-352.	0.9	49
54	A strategy to capture and characterize the synaptic transcriptome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7464-7469.	7.1	49

#	ARTICLE	IF	CITATIONS
55	Localization of nicotinamide adenine dinucleotide phosphateâ€diaphorase activity in electrosensory and electromotor systems of a gymnotiform teleost, <i>Apteronotus leptorhynchus</i>. Journal of Comparative Neurology, 1995, 356, 261-274.	1.6	47
56	Candidate chemoreceptor subfamilies differentially expressed in the chemosensory organs of the mollusc <i>Aplysia</i> . BMC Biology, 2009, 7, 28.	3.8	47
57	Rapid evolution of the compact and unusual mitochondrial genome in the ctenophore, <i>Pleurobrachia bachei</i> . Molecular Phylogenetics and Evolution, 2012, 63, 203-207.	2.7	44
58	NMDA-like receptors in the CNS of molluscs. NeuroReport, 1993, 4, 201-204.	1.2	42
59	Nitric oxide synthase in tiger salamander retina. Journal of Comparative Neurology, 1995, 361, 525-536.	1.6	42
60	Unbiased View of Synaptic and Neuronal Gene Complement in Ctenophores: Are There Pan-neuronal and Pan-synaptic Genes across Metazoa?. Integrative and Comparative Biology, 2015, 55, icv104.	2.0	42
61	The genealogy of genealogy of neurons. Communicative and Integrative Biology, 2014, 7, e993269.	1.4	41
62	High-resolution microanalysis of nitrite and nitrate in neuronal tissues by capillary electrophoresis with conductivity detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 774, 97-104.	2.3	39
63	DNA Methylation in Basal Metazoans: Insights from Ctenophores. Integrative and Comparative Biology, 2015, 55, 1096-1110.	2.0	38
64	Dicyemida and Orthonectida: Two Stories of Body Plan Simplification. Frontiers in Genetics, 2019, 10, 443.	2.3	37
65	The diversification and lineage-specific expansion of nitric oxide signaling in Placozoa: insights in the evolution of gaseous transmission. Scientific Reports, 2020, 10, 13020.	3.3	37
66	Molluscan mobile elements similar to the vertebrate Recombination-Activating Genes. Biochemical and Biophysical Research Communications, 2008, 369, 818-823.	2.1	36
67	Miscues misplace sponges. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E946-7.	7.1	36
68	Evolution of glutamatergic signaling and synapses. Neuropharmacology, 2021, 199, 108740.	4.1	36
69	Two-color in situ hybridization in the CNS of <i>Aplysia californica</i> . Journal of Neuroscience Methods, 2005, 149, 15-25.	2.5	35
70	NSF workshop report: Discovering general principles of nervous system organization by comparing brain maps across species. Journal of Comparative Neurology, 2014, 522, 1445-1453.	1.6	35
71	Analysis of nitric oxideâ€cyclic guanosine monophosphate signaling during metamorphosis of the nudibranch <i>Phestilla sibogae</i> Bergh (Gastropoda: Opisthobranchia). Evolution & Development, 2008, 10, 288-299.	2.0	34
72	Monitoring real-time release of ATP from the molluscan central nervous system. Journal of Neuroscience Methods, 2004, 139, 145-152.	2.5	32

#	ARTICLE	IF	CITATIONS
73	Neuromuscular organization of the Ctenophore <sc><i>Pleurobrachia bachei</i></sc>. Journal of Comparative Neurology, 2019, 527, 406-436.	1.6	32
74	NeuroSystematics and Periodic System of Neurons: Model vs Reference Species at Single-Cell Resolution. ACS Chemical Neuroscience, 2018, 9, 1884-1903.	3.5	31
75	Multiple Origins of Neurons From Secretory Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 669087.	3.7	30
76	Endogenous thyroid hormone synthesis in facultative planktotrophic larvae of the sand dollar <i>Clypeaster rosaceus</i> : implications for the evolutionary loss of larval feeding. Evolution & Development, 2006, 8, 568-579.	2.0	29
77	Calcium/calmodulin-dependent nitric oxide synthase activity in the CNS of <i>Aplysia californica</i> : Biochemical characterization and link to cGMP pathways. Journal of Inorganic Biochemistry, 2005, 99, 922-928.	3.5	27
78	Glycine as a signaling molecule and chemoattractant in <i>Trichoplax</i> (Placozoa): insights into the early evolution of neurotransmitters. NeuroReport, 2020, 31, 490-497.	1.2	27
79	The American lobster genome reveals insights on longevity, neural, and immune adaptations. Science Advances, 2021, 7, .	10.3	27
80	Development of neuromuscular organization in the ctenophore <i>Pleurobrachia bachei</i>. Journal of Comparative Neurology, 2016, 524, 136-151.	1.6	26
81	Transcriptome analysis and identification of regulators for long-term plasticity in <i>Aplysia kurodai</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18602-18607.	7.1	25
82	Microchemical identification of enantiomers in early-branching animals: Lineage-specific diversification in the usage of D-glutamate and D-aspartate. Biochemical and Biophysical Research Communications, 2020, 527, 947-952.	2.1	25
83	Distinct Expression Patterns of Glycoprotein Hormone Subunits in the Lophotrochozoan <i>Aplysia</i> : Implications for the Evolution of Neuroendocrine Systems in Animals. Endocrinology, 2012, 153, 5440-5451.	2.8	24
84	Neural system and receptor diversity in the ctenophore <sc><i>Beroë abyssicola</i></sc>. Journal of Comparative Neurology, 2019, 527, 1986-2008.	1.6	24
85	Electroporation of neurons and growth cones in <i>Aplysia californica</i> . Journal of Neuroscience Methods, 2006, 151, 114-120.	2.5	23
86	Comparative neuroanatomy of ctenophores: Neural and muscular systems in <i>Euplökamis dunlapae</i> and related species. Journal of Comparative Neurology, 2020, 528, 481-501.	1.6	23
87	Sodium action potentials in placozoa: Insights into behavioral integration and evolution of nerveless animals. Biochemical and Biophysical Research Communications, 2020, 532, 120-126.	2.1	22
88	Hidden cell diversity in Placozoa: ultrastructural insights from <i>Hoilungia hongkongensis</i> . Cell and Tissue Research, 2021, 385, 623-637.	2.9	22
89	Gaseous Transmission Across Time and Species1. American Zoologist, 2001, 41, 304-320.	0.7	21
90	<i>Schistosoma mansoni</i> : Use of a fluorescent indicator to detect nitric oxide and related species in living parasites. Experimental Parasitology, 2006, 113, 130-133.	1.2	19

#	ARTICLE	IF	CITATIONS
91	The largest growth cones in the animal kingdom: an illustrated guide to the dynamics of <i>Aplysia</i> neuronal growth in cell culture. <i>Integrative and Comparative Biology</i> , 2006, 46, 847-870.	2.0	19
92	Hyperpolarization-activated, cyclic nucleotide-gated cation channels in <i>Aplysia</i> : Contribution to classical conditioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 16030-16035.	7.1	19
93	Nitric Oxide Potentiates cAMP-Gated Cation Current in Feeding Neurons of Pleurobranchaea californica Independent of cAMP and cGMP Signaling Pathways. <i>Journal of Neurophysiology</i> , 2006, 95, 3219-3227.	1.8	16
94	Single-Cell Semiconductor Sequencing. <i>Methods in Molecular Biology</i> , 2013, 1048, 247-284.	0.9	16
95	Neuromodulatory Control of a Goal-Directed Decision. <i>PLoS ONE</i> , 2014, 9, e102240.	2.5	16
96	Selective Advantages of Synapses in Evolution. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 726563.	3.7	15
97	Mechanisms of behavioural selection in <i>Lymnaea stagnalis</i> . , 1992, , 52-72.		14
98	On the comparative biology of Nitric Oxide (NO) synthetic pathways: Parallel evolution of NO-mediated signaling. <i>Advances in Experimental Biology</i> , 2007, 1, 1-44.	0.1	13
99	Identification and distribution of a two-pore domain potassium channel in the CNS of <i>Aplysia californica</i> . <i>Molecular Brain Research</i> , 2004, 127, 27-38.	2.3	11
100	Parallel Evolution and Lineage-Specific Expansion of RNA Editing in Ctenophores. <i>Integrative and Comparative Biology</i> , 2015, 55, 1111-1120.	2.0	11
101	Serotonin and its metabolism in basal deuterostomes: insights from <i>Strongylocentrotus purpuratus</i> and <i>Xenoturbella bocki</i> . <i>Journal of Experimental Biology</i> , 2010, 213, 2647-2654.	1.7	10
102	Biodiversity Meets Neuroscience: From the Sequencing Ship (Ship-Seq) to Deciphering Parallel Evolution of Neural Systems in Omicâ€™s Era. <i>Integrative and Comparative Biology</i> , 2015, 55, icv084.	2.0	10
103	Expanding of Life Strategies in Placozoa: Insights From Long-Term Culturing of <i>Trichoplax</i> and <i>Hoilungia</i> . <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 823283.	3.7	10
104	Single cell glutamate analysis in <i>Aplysia</i> sensory neurons. <i>Journal of Neuroscience Methods</i> , 2005, 144, 73-77.	2.5	9
105	Intermediate-term memory in <i>Aplysia</i> involves neurotrophin signaling, transcription, and DNA methylation. <i>Learning and Memory</i> , 2018, 25, 620-628.	1.3	9
106	Mapping of neuropeptide Y expression in <i>Octopus</i> brains. <i>Journal of Morphology</i> , 2020, 281, 790-801.	1.2	8
107	Development of the nervous system in the early hatching larvae of the ctenophore <i>Mnemiopsis leidyi</i> . <i>Journal of Morphology</i> , 2021, 282, 1466-1477.	1.2	8
108	Atlas of the neuromuscular system in the Trachymedusa <i>Aglantha digitale</i> : Insights from the advanced hydrozoan. <i>Journal of Comparative Neurology</i> , 2020, 528, 1231-1254.	1.6	7

#	ARTICLE	IF	CITATIONS
109	Different phylogenomic methods support monophyly of enigmatic "Mesozoa"™ (Dicyemida +) Tj ETQq1 1 0.784314 rgBT /Overlook	2.6	7
110	Molecular characterization and expression of a two-pore domain potassium channel in the CNS of <i>Aplysia californica</i> . <i>Brain Research</i> , 2006, 1094, 47-56.	2.2	6
111	Differential Evolutionary Rates of Neuronal Transcriptome in <i>Aplysia kurodai</i> and <i>Aplysia californica</i> as a Tool for Gene Mining. <i>Journal of Neurogenetics</i> , 2010, 24, 75-82.	1.4	6
112	Gaseous Transmission Across Time and Species. <i>American Zoologist</i> , 2001, 41, 304-320.	0.7	4
113	ATP signaling in the integrative neural center of <i>Aplysia californica</i> . <i>Scientific Reports</i> , 2021, 11, 5478.	3.3	4
114	Analysis of Gene Expression in Neurons and Synapses by Multi-color In Situ Hybridization. <i>NeuroMethods</i> , 2015, , 293-317.	0.3	4
115	Neurotransmission and neuromodulation systems in the learning and memory network of <i>Octopus vulgaris</i> . <i>Journal of Morphology</i> , 2022, 283, 557-584.	1.2	4
116	On the Origin and Early Evolution of Neuronal Nitric Oxide Signaling: A Comparative Analysis. , 2000, , 1-34.		3
117	NADPH-diaphorase localization in the CNS and peripheral tissues of the predatory sea slug <i>Pleurobranchaea californica</i> . <i>Journal of Comparative Neurology</i> , 1996, 367, 607-622.	1.6	2
118	Cover Image, Volume 527, Issue 2. <i>Journal of Comparative Neurology</i> , 2019, 527, C1-C1.	1.6	0