

# Oleg V Shupliakov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/168625/publications.pdf>

Version: 2024-02-01

109  
papers

9,473  
citations

53660

45  
h-index

38300

95  
g-index

113  
all docs

113  
docs citations

113  
times ranked

10113  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Pericyte Origin of Spinal Cord Scar Tissue. <i>Science</i> , 2011, 333, 238-242.	6.0	711
2	Spinal Cord Injury Reveals Multilineage Differentiation of Ependymal Cells. <i>PLoS Biology</i> , 2008, 6, e182.	2.6	558
3	Evidence for neurogenesis in the adult mammalian substantia nigra. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7925-7930.	3.3	539
4	Distinct pools of synaptic vesicles in neurotransmitter release. <i>Nature</i> , 1995, 375, 493-497.	13.7	492
5	Role of the Clathrin Terminal Domain in Regulating Coated Pit Dynamics Revealed by Small Molecule Inhibition. <i>Cell</i> , 2011, 146, 471-484.	13.5	459
6	Synaptic Vesicle Endocytosis Impaired by Disruption of Dynamin-SH3 Domain Interactions. <i>Science</i> , 1997, 276, 259-263.	6.0	455
7	Forebrain ependymal cells are Notch-dependent and generate neuroblasts and astrocytes after stroke. <i>Nature Neuroscience</i> , 2009, 12, 259-267.	7.1	415
8	Impairment of synaptic vesicle clustering and of synaptic transmission, and increased seizure propensity, in synapsin I-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 9235-9239.	3.3	328
9	Human MIEF1 recruits Drp1 to mitochondrial outer membranes and promotes mitochondrial fusion rather than fission. <i>EMBO Journal</i> , 2011, 30, 2762-2778.	3.5	318
10	Endophilin/SH3p4 Is Required for the Transition from Early to Late Stages in Clathrin-Mediated Synaptic Vesicle Endocytosis. <i>Neuron</i> , 1999, 24, 143-154.	3.8	302
11	Two pools of vesicles associated with the presynaptic cytosolic projection in <i>Drosophila</i> neuromuscular junctions. <i>Journal of Structural Biology</i> , 2010, 172, 389-394.	1.3	297
12	Fission and Uncoating of Synaptic Clathrin-Coated Vesicles Are Perturbed by Disruption of Interactions with the SH3 Domain of Endophilin. <i>Neuron</i> , 2000, 27, 301-312.	3.8	276
13	Sequential steps in clathrin-mediated synaptic vesicle endocytosis. <i>Current Opinion in Neurobiology</i> , 2000, 10, 312-320.	2.0	207
14	Impaired recycling of synaptic vesicles after acute perturbation of the presynaptic actin cytoskeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14476-14481.	3.3	207
15	Colocalization of synapsin and actin during synaptic vesicle recycling. <i>Journal of Cell Biology</i> , 2003, 161, 737-747.	2.3	193
16	Dissociation between Ca <sup>2+</sup> -Triggered Synaptic Vesicle Exocytosis and Clathrin-Mediated Endocytosis at a Central Synapse. <i>Neuron</i> , 1998, 21, 607-616.	3.8	155
17	Molecular basis for SH3 domain regulation of F-BAR-mediated membrane deformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8213-8218.	3.3	138
18	Actin dynamics provides membrane tension to merge fusing vesicles into the plasma membrane. <i>Nature Communications</i> , 2016, 7, 12604.	5.8	127

#	ARTICLE	IF	CITATIONS
19	Eps15 and Dap160 control synaptic vesicle membrane retrieval and synapse development. <i>Journal of Cell Biology</i> , 2007, 178, 309-322.	2.3	117
20	Locomotor Deficiencies and Aberrant Development of Subtype-Specific GABAergic Interneurons Caused by an Unliganded Thyroid Hormone Receptor $\beta$ 1. <i>Journal of Neuroscience</i> , 2008, 28, 1904-1915.	1.7	112
21	An endophilin-dynamin complex promotes budding of clathrin-coated vesicles during synaptic vesicle recycling. <i>Journal of Cell Science</i> , 2011, 124, 133-143.	1.2	106
22	Control of lamprey locomotor neurons by colocalized monoamine transmitters. <i>Nature</i> , 1995, 374, 266-268.	13.7	103
23	Ultrastructural evidence for a preferential elimination of glutamate-immunoreactive synaptic terminals from spinal motoneurons after intramedullary axotomy. <i>Journal of Comparative Neurology</i> , 2000, 425, 10-23.	0.9	94
24	A latent lineage potential in resident neural stem cells enables spinal cord repair. <i>Science</i> , 2020, 370, .	6.0	89
25	Qualitative and quantitative analysis of glycine- and GABA-immunoreactive nerve terminals on motoneuron cell bodies in the cat spinal cord: A postembedding electron microscopic study. , 1996, 365, 413-426.		88
26	How synapsin I may cluster synaptic vesicles. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 393-399.	2.3	86
27	Immunohistochemical evidence for coexistence of glycine and GABA in nerve terminals on cat spinal motoneurons. <i>NeuroReport</i> , 1994, 5, 889-892.	0.6	85
28	Intersectin Is a Negative Regulator of Dynamin Recruitment to the Synaptic Endocytic Zone in the Central Synapse. <i>Journal of Neuroscience</i> , 2007, 27, 379-390.	1.7	81
29	The synapsin cycle: A view from the synaptic endocytic zone. <i>Journal of Neuroscience Research</i> , 2007, 85, 2648-2656.	1.3	77
30	Regulation of synaptic vesicle recycling by complex formation between intersectin 1 and the clathrin adaptor complex AP2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4206-4211.	3.3	73
31	Dopaminergic control of autophagic-lysosomal function implicates Lmx1b in Parkinson's disease. <i>Nature Neuroscience</i> , 2015, 18, 826-835.	7.1	72
32	Measurement of the Dynamics of Exocytosis and Vesicle Retrieval at Cell Populations Using a Quartz Crystal Microbalance. <i>Analytical Chemistry</i> , 2001, 73, 5805-5811.	3.2	70
33	Amphiphysin is a Component of Clathrin Coats Formed During Synaptic Vesicle Recycling at the Lamprey Giant Synapse. <i>Traffic</i> , 2004, 5, 514-528.	1.3	65
34	Peroxiredoxin V is essential for protection against apoptosis in human lung carcinoma cells. <i>Experimental Cell Research</i> , 2006, 312, 2806-2815.	1.2	64
35	Vesicle Clustering in a Living Synapse Depends on a Synapsin Region that Mediates Phase Separation. <i>Cell Reports</i> , 2020, 30, 2594-2602.e3.	2.9	64
36	Pharmacologically induced elements of the hunting and feeding behavior in the pteropod mollusk <i>Clio limacina</i> . I. Effects of GABA. <i>Journal of Neurophysiology</i> , 1993, 69, 512-521.	0.9	63

#	ARTICLE	IF	CITATIONS
37	Immunocytochemical localization of amino acid neurotransmitter candidates in the ventral horn of the cat spinal cord: a light microscopic study. <i>Experimental Brain Research</i> , 1993, 96, 404-18.	0.7	62
38	Presynaptic mitochondria and the temporal pattern of neurotransmitter release. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999, 354, 365-372.	1.8	62
39	Zinc co-localizes with GABA and glycine in synapses in the lamprey spinal cord. <i>Journal of Comparative Neurology</i> , 2001, 433, 208-221.	0.9	62
40	Perturbation of Syndapin/PACSIN Impairs Synaptic Vesicle Recycling Evoked by Intense Stimulation. <i>Journal of Neuroscience</i> , 2008, 28, 3925-3933.	1.7	60
41	Intersectin 1: a versatile actor in the synaptic vesicle cycle. <i>Biochemical Society Transactions</i> , 2010, 38, 181-186.	1.6	60
42	Cargo- and compartment-selective endocytic scaffold proteins. <i>Biochemical Journal</i> , 2004, 383, 1-11.	1.7	57
43	Synaptic and nonsynaptic monoaminergic neuron systems in the lamprey spinal cord. <i>Journal of Comparative Neurology</i> , 1996, 372, 229-244.	0.9	54
44	The synaptic vesicle cluster: A source of endocytic proteins during neurotransmitter release. <i>Neuroscience</i> , 2009, 158, 204-210.	1.1	51
45	Fast neurotransmitter release regulated by the endocytic scaffold intersectin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8266-8271.	3.3	51
46	Sustained Neurotransmitter Release: New Molecular Clues. <i>European Journal of Neuroscience</i> , 1997, 9, 2503-2511.	1.2	49
47	A procedure to deposit fiducial markers on vitreous cryo-sections for cellular tomography. <i>Journal of Structural Biology</i> , 2006, 156, 461-468.	1.3	49
48	Intersectin associates with synapsin and regulates its nanoscale localization and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12057-12062.	3.3	47
49	Ultrastructural organization of lamprey reticulospinal synapses in three dimensions. <i>Journal of Comparative Neurology</i> , 2002, 450, 167-182.	0.9	46
50	The novel conserved mitochondrial inner-membrane protein MTGM regulates mitochondrial morphology and cell proliferation. <i>Journal of Cell Science</i> , 2009, 122, 2252-2262.	1.2	44
51	Sphingosine 1-phosphate lyase ablation disrupts presynaptic architecture and function via an ubiquitin- proteasome mediated mechanism. <i>Scientific Reports</i> , 2016, 6, 37064.	1.6	43
52	Giant reticulospinal synapse in lamprey: molecular links between active and periaxial zones. <i>Cell and Tissue Research</i> , 2006, 326, 301-310.	1.5	41
53	Vesicle Shrinking and Enlargement Play Opposing Roles in the Release of Exocytotic Contents. <i>Cell Reports</i> , 2020, 30, 421-431.e7.	2.9	41
54	Vesicle uncoating regulated by SH3 domain-mediated complex formation between endophilin and intersectin at synapses. <i>EMBO Reports</i> , 2015, 16, 232-239.	2.0	40

#	ARTICLE	IF	CITATIONS
55	Functional diversity of central glutamate synapses and postsynaptic mechanisms. <i>Acta Physiologica Scandinavica</i> , 1994, 150, 1-10.	2.3	39
56	Co-localized neuropeptide Y and GABA have complementary presynaptic effects on sensory synaptic transmission. <i>European Journal of Neuroscience</i> , 1998, 10, 2856-2870.	1.2	38
57	Synapsin I Senses Membrane Curvature by an Amphipathic Lipid Packing Sensor Motif. <i>Journal of Neuroscience</i> , 2011, 31, 18149-18154.	1.7	38
58	The reticulospinal glutamate synapse in lamprey: plasticity and presynaptic variability. <i>Journal of Neurophysiology</i> , 1994, 72, 592-604.	0.9	37
59	Synaptic Vesicle Depletion in Reticulospinal Axons is Reduced by 5-hydroxytryptamine: Direct Evidence for Presynaptic Modulation of Glutamatergic Transmission. <i>European Journal of Neuroscience</i> , 1995, 7, 1111-1116.	1.2	37
60	Argipin blocks the glutamate responses and sensorimotor transmission in motoneurons of isolated frog spinal cord. <i>Neuroscience Letters</i> , 1987, 83, 179-184.	1.0	35
61	Membrane Charge Directs the Outcome of F-BAR Domain Lipid Binding and Autoregulation. <i>Cell Reports</i> , 2015, 13, 2597-2609.	2.9	35
62	Taking a Back Seat: Synaptic Vesicle Clustering in Presynaptic Terminals. <i>Frontiers in Synaptic Neuroscience</i> , 2010, 2, 143.	1.3	34
63	Role of epsin 1 in synaptic vesicle endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6445-6450.	3.3	33
64	A pre-embedding immunogold approach for detection of synaptic endocytic proteins in situ. <i>Journal of Neuroscience Methods</i> , 2004, 135, 169-174.	1.3	30
65	An Endocytic Scaffolding Protein together with Synapsin Regulates Synaptic Vesicle Clustering in the <i>Drosophila</i> Neuromuscular Junction. <i>Journal of Neuroscience</i> , 2015, 35, 14756-14770.	1.7	28
66	Centrifugal innervation of the lamprey retina. Light- and electron microscopic and electrophysiological investigations. <i>Brain Research</i> , 1989, 493, 51-65.	1.1	26
67	Two types of motoneurons supplying dorsal fin muscles in lamprey and their activity during fictive locomotion. <i>Journal of Comparative Neurology</i> , 1992, 321, 112-123.	0.9	26
68	Origin of phasic synaptic inhibition in myotomal motoneurons during fictive locomotion in the lamprey. <i>Experimental Brain Research</i> , 1993, 96, 194-202.	0.7	26
69	Possible morphological substrates for GABA-mediated presynaptic inhibition in the lamprey spinal cord. <i>Journal of Comparative Neurology</i> , 1993, 328, 463-472.	0.9	25
70	The dynamin-binding domains of Dap160/Intersectin affect bulk membrane retrieval in synapses. <i>Journal of Cell Science</i> , 2013, 126, 1021-31.	1.2	25
71	Recent insights into the building and cycling of synaptic vesicles. <i>Experimental Cell Research</i> , 2010, 316, 1344-1350.	1.2	24
72	Preformed $\hat{\text{C}}$ -profile closure and kiss-and-run mediate endocytosis and diverse endocytic modes in neuroendocrine chromaffin cells. <i>Neuron</i> , 2021, 109, 3119-3134.e5.	3.8	24

#	ARTICLE	IF	CITATIONS
73	Targeted disruption of the Mast syndrome gene SPG21 in mice impairs hind limb function and alters axon branching in cultured cortical neurons. <i>Neurogenetics</i> , 2010, 11, 369-378.	0.7	23
74	Differential efficiency of the endocytic machinery in tonic and phasic synapses. <i>Neuroscience</i> , 2006, 141, 123-131.	1.1	22
75	Retromer in Synaptic Function and Pathology. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 37.	1.3	22
76	Anatomical study of spinobulbar neurons in lampreys. <i>Journal of Comparative Neurology</i> , 1998, 397, 475-492.	0.9	21
77	Synapsin- and Actin-Dependent Frequency Enhancement in Mouse Hippocampal Mossy Fiber Synapses. <i>Cerebral Cortex</i> , 2009, 19, 511-523.	1.6	20
78	Structural organization of the presynaptic density at identified synapses in the locust central nervous system. <i>Journal of Comparative Neurology</i> , 2012, 520, 384-400.	0.9	18
79	Monosynaptic input from cutaneous sensory afferents to fin motoneurons in lamprey. , 1996, 369, 533-542.		17
80	Glial and neuronal glutamine pools at glutamatergic synapses with distinct properties. <i>Neuroscience</i> , 1997, 77, 1201-1212.	1.1	17
81	On the Distribution of GAP-43 and its Relation to Serotonin in Adult Monkey and Cat Spinal Cord and Lower Brainstem. <i>European Journal of Neuroscience</i> , 1992, 4, 777-784.	1.2	15
82	Thyrotropin-releasing hormone (TRH)-like immunoreactivity in the grey monkey ( <i>Macaca fascicularis</i> ) spinal cord and medulla oblongata with special emphasis on the bulbospinal tract. <i>Journal of Comparative Neurology</i> , 1992, 322, 293-310.	0.9	14
83	Inhibition of neurotransmitter release in the lamprey reticulospinal synapse by antibody-mediated disruption of SNAP-25 function. <i>European Journal of Cell Biology</i> , 1999, 78, 787-793.	1.6	14
84	Extrasynaptic localization of taurine-like immunoreactivity in the lamprey spinal cord. <i>Journal of Comparative Neurology</i> , 1994, 347, 301-311.	0.9	12
85	Immunologic differentiation of two high-affinity neurotensin receptor isoforms in the developing rat brain. <i>Journal of Comparative Neurology</i> , 2000, 425, 45-57.	0.9	12
86	A semi-correlative technique for the subcellular localization of proteins in <i>Drosophila</i> synapses. <i>Journal of Neuroscience Methods</i> , 2010, 185, 273-279.	1.3	10
87	Identification of two types of excitatory monosynaptic inputs in frog spinal motoneurons. <i>Neuroscience Letters</i> , 1990, 109, 82-87.	1.0	9
88	Role of the Clathrin Terminal Domain in Regulating Coated Pit Dynamics Revealed by Small Molecule Inhibition. <i>Cell</i> , 2011, 146, 841.	13.5	8
89	Mitochondrial dysfunction in adult midbrain dopamine neurons triggers an early immune response. <i>PLoS Genetics</i> , 2021, 17, e1009822.	1.5	8
90	Î±-Synuclein in the Synaptic Vesicle Liquid Phase: Active Player or Passive Bystander?. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, .	1.6	8

#	ARTICLE	IF	CITATIONS
91	14 Central glutamatergic transmission. <i>Advances in Second Messenger and Phosphoprotein Research</i> , 1994, , 205-221.	4.5	7
92	Clathrin-mediated endocytosis cooperates with bulk endocytosis to generate vesicles. <i>IScience</i> , 2022, 25, 103809.	1.9	7
93	Ultrastructural identification of dividing cells in the adult mammalian central nervous system. <i>Journal of Neuroscience Methods</i> , 2002, 119, 59-63.	1.3	5
94	Recurrent dorsal root potentials and motoneuron morphology in the frog spinal cord. <i>Neuroscience Letters</i> , 1990, 117, 289-294.	1.0	4
95	Neurotransmitter Levels and Synaptic Strength at the <i>Drosophila</i> Larval Neuromuscular Junction are not Altered by Mutation in the <i>Sluggish-a</i> Gene, Which Encodes Proline Oxidase and Affects Adult Locomotion. <i>Journal of Neurogenetics</i> , 2000, 14, 165-192.	0.6	4
96	Synaptic organization of dorsal root projections to lumbar motoneurons in the clawed toad ( <i>Xenopus laevis</i> ). <i>Experimental Brain Research</i> , 1986, 63, 135-42.	0.7	3
97	Presynaptic mechanisms in central synaptic transmission: glutamatergic synapse â€”biochemistryglutamatergic synapse â€” of an intact glutamatergic synapse. <i>Acta Physiologica Scandinavica</i> , 1996, 157, 369-379.	2.3	3
98	Molecular Cloning of Synucleins in River Lamprey <i>Lampetra fluviatilis</i> . <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2018, 12, 278-286.	0.3	1
99	Qualitative and quantitative analysis of glycine- and GABA-immunoreactive nerve terminals on motoneuron cell bodies in the cat spinal cord: A postembedding electron microscopic study. , 1996, 365, 413.		1
100	Co-localized neuropeptide Y and GABA have complementary presynaptic effects on sensory synaptic transmission. <i>European Journal of Neuroscience</i> , 1998, 10, 2856-2870.	1.2	1
101	Malfunctions in synaptic membrane trafficking in early pathology of Parkinsonâ€™s disease: New molecular clues. <i>Biological Communications</i> , 2017, 62, 272-277.	0.4	1
102	Confocal laser scanning microscopy as a tool to study the 3-D structure of identified neurons. <i>Micron and Microscopica Acta</i> , 1992, 23, 129-130.	0.2	0
103	Vesicle Structural Changes Control Content Release of Transmitters and Hormones. <i>Microscopy and Microanalysis</i> , 2019, 25, 1172-1173.	0.2	0
104	P.406 Intrinsically disordered regions of synapsin hold together synaptic vesicles of the reserve pool in a living synapse. <i>European Neuropsychopharmacology</i> , 2019, 29, S287-S288.	0.3	0
105	Vesicle Shrinking and Enlargement: The Yin and Yang of Exocytotic Content Release. <i>Biophysical Journal</i> , 2020, 118, 399a.	0.2	0
106	Synaptic Endosomes. , 2006, , 36-49.		0
107	P.0285 Regulation of the synaptic vesicle liquid phase by dynamic sh3 domain binding. <i>European Neuropsychopharmacology</i> , 2021, 53, S205.	0.3	0
108	P.0270 Early structural alterations in mitochondria in adult dopamine neurons induced by conditional ablation of MFN2. <i>European Neuropsychopharmacology</i> , 2021, 53, S195.	0.3	0

#	ARTICLE	IF	CITATIONS
109	P.0557 A role of endophilin A in the synaptic vesicle liquid phase. European Neuropsychopharmacology, 2021, 53, S409-S410.	0.3	0