

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64 papers	1,312 citations	20 h-index	34 g-index
75 ext. papers	1,697 ext. citations	4.8 avg, IF	4.8 L-index

#	Paper	IF	Citations
64	Stress suppresses and learning induces plasticity in CA3 of rat hippocampus: a three-dimensional ultrastructural study of thorny excrescences and their postsynaptic densities. <i>Neuroscience</i> , 2005 , 131, 43-54	3.9	168
63	Forebrain CRF β modulates early-life stress-programmed cognitive deficits. <i>Journal of Neuroscience</i> , 2011 , 31, 13625-34	6.6	123
62	Glia selectively approach synapses on thin dendritic spines. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20140047	5.8	67
61	Chemically induced long-term potentiation increases the number of perforated and complex postsynaptic densities but does not alter dendritic spine volume in CA1 of adult mouse hippocampal slices. <i>European Journal of Neuroscience</i> , 2005 , 21, 3368-78	3.5	66
60	LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. <i>Neuron</i> , 2020 , 108, 919-936.e11	13.9	65
59	Impaired hippocampal neuroligin-2 function by chronic stress or synthetic peptide treatment is linked to social deficits and increased aggression. <i>Neuropsychopharmacology</i> , 2014 , 39, 1148-58	8.7	60
58	A cell adhesion molecule mimetic, FGL peptide, induces alterations in synapse and dendritic spine structure in the dentate gyrus of aged rats: a three-dimensional ultrastructural study. <i>European Journal of Neuroscience</i> , 2008 , 27, 301-14	3.5	41
57	Disentangling astroglial physiology with a realistic cell model in silico. <i>Nature Communications</i> , 2018 , 9, 3554	17.4	41
56	Peptidylarginine Deiminases Post-Translationally Deiminate Prohibitin and Modulate Extracellular Vesicle Release and MicroRNAs in Glioblastoma Multiforme. <i>International Journal of Molecular Sciences</i> , 2018 , 20,	6.3	40
55	Peptidylarginine Deiminase Inhibitors Reduce Bacterial Membrane Vesicle Release and Sensitize Bacteria to Antibiotic Treatment. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019 , 9, 227	5.9	38
54	The N-methyl-D-aspartate receptor antagonist CPP alters synapse and spine structure and impairs long-term potentiation and long-term depression induced morphological plasticity in dentate gyrus of the awake rat. <i>Neuroscience</i> , 2010 , 165, 1170-81	3.9	30
53	Cannabidiol Is a Novel Modulator of Bacterial Membrane Vesicles. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019 , 9, 324	5.9	27
52	Cannabidiol Affects Extracellular Vesicle Release, miR21 and miR126, and Reduces Prohibitin Protein in Glioblastoma Multiforme Cells. <i>Translational Oncology</i> , 2019 , 12, 513-522	4.9	27
51	Hippocampal circuit dysfunction in the Tc1 mouse model of Down syndrome. <i>Nature Neuroscience</i> , 2015 , 18, 1291-1298	25.5	26
50	Extracellular vesicles from cod (<i>Gadus morhua</i> L.) mucus contain innate immune factors and deiminated protein cargo. <i>Developmental and Comparative Immunology</i> , 2019 , 99, 103397	3.2	23
49	Partial kindling induces neurogenesis, activates astrocytes and alters synaptic morphology in the dentate gyrus of freely moving adult rats. <i>Neuroscience</i> , 2009 , 162, 254-67	3.9	22
48	Deiminated proteins in extracellular vesicles and plasma of nurse shark (<i>Ginglymostoma cirratum</i>) - Novel insights into shark immunity. <i>Fish and Shellfish Immunology</i> , 2019 , 92, 249-255	4.3	21

47	Peptidylarginine Deiminase Isozyme-Specific PAD2, PAD3 and PAD4 Inhibitors Differentially Modulate Extracellular Vesicle Signatures and Cell Invasion in Two Glioblastoma Multiforme Cell Lines. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	21
46	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (). <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	21
45	Early structural and functional defects in synapses and myelinated axons in stratum lacunosum moleculare in two preclinical models for tauopathy. <i>PLoS ONE</i> , 2014 , 9, e87605	3.7	21
44	A peptide mimetic targeting trans-homophilic NCAM binding sites promotes spatial learning and neural plasticity in the hippocampus. <i>PLoS ONE</i> , 2011 , 6, e23433	3.7	19
43	Generation of multi-innervated dendritic spines as a novel mechanism of long-term memory formation. <i>Neurobiology of Learning and Memory</i> , 2015 , 124, 48-51	3.1	18
42	Complement component C4-like protein in Atlantic cod (<i>Gadus morhua</i> L.) - Detection in ontogeny and identification of post-translational deimination in serum and extracellular vesicles. <i>Developmental and Comparative Immunology</i> , 2019 , 101, 103437	3.2	18
41	Extracellular vesicles, deiminated protein cargo and microRNAs are novel serum biomarkers for environmental rearing temperature in Atlantic cod (<i>Gadus morhua</i> L.). <i>Aquaculture Reports</i> , 2020 , 16, 100245	2.3	18
40	Altered visual processing in a rodent model of Attention-Deficit Hyperactivity Disorder. <i>Neuroscience</i> , 2015 , 303, 364-77	3.9	17
39	Multiple spine boutons are formed after long-lasting LTP in the awake rat. <i>Brain Structure and Function</i> , 2014 , 219, 407-14	4	16
38	Alterations in synaptic curvature in the dentate gyrus following induction of long-term potentiation, long-term depression, and treatment with the N-methyl-D-aspartate receptor antagonist CPP. <i>Neuroscience</i> , 2010 , 171, 390-7	3.9	16
37	Protein Deimination and Extracellular Vesicle Profiles in Antarctic Seabirds. <i>Biology</i> , 2020 , 9,	4.9	15
36	Dysfunctional Dopaminergic Neurones in Mouse Models of Huntington's Disease: A Role for SK3 Channels. <i>Neurodegenerative Diseases</i> , 2015 , 15, 93-108	2.3	15
35	Suspension of mitotic activity in dentate gyrus of the hibernating ground squirrel. <i>Neural Plasticity</i> , 2011 , 2011, 867525	3.3	15
34	Deiminated proteins in extracellular vesicles and serum of llama (<i>Lama glama</i>)-Novel insights into camelid immunity. <i>Molecular Immunology</i> , 2020 , 117, 37-53	4.3	15
33	Deiminated proteins and extracellular vesicles - Novel serum biomarkers in whales and orca. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2020 , 34, 100676	2	14
32	Multi-input Synapses, but Not LTP-Strengthened Synapses, Correlate with Hippocampal Memory Storage in Aged Mice. <i>Current Biology</i> , 2019 , 29, 3600-3610.e4	6.3	14
31	Deiminated proteins and extracellular vesicles as novel biomarkers in pinnipeds: Grey seal (<i>Halichoerus grypus</i>) and harbour seal (<i>Phoca vitulina</i>). <i>Biochimie</i> , 2020 , 171-172, 79-90	4.6	12
30	Deimination Protein Profiles in Reveal Plasma and Extracellular Vesicle-Specific Signatures Relating to Immunity, Metabolic Function, and Gene Regulation. <i>Frontiers in Immunology</i> , 2020 , 11, 651	8.4	12

29	Post-translational protein deimination signatures and extracellular vesicles (EVs) in the Atlantic horseshoe crab (<i>Limulus polyphemus</i>). <i>Developmental and Comparative Immunology</i> , 2020 , 110, 103714	3.2	12
28	Structure and Complexity of the Synapse and Dendritic Spine		12
27	Age-Induced Loss of Mossy Fibre Synapses on CA3 Thorns in the CA3 Stratum Lucidum. <i>Neuroscience Journal</i> , 2013 , 2013, 839535	4.2	11
26	Protein Deimination Signatures in Plasma and Plasma-EVs and Protein Deimination in the Brain Vasculature in a Rat Model of Pre-Motor Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
25	Extracellular Vesicles and Post-Translational Protein Deimination Signatures in Mollusca-The Blue Mussel (), Soft Shell Clam (), Eastern Oyster () and Atlantic Jackknife Clam (). <i>Biology</i> , 2020 , 9,	4.9	10
24	Extracellular vesicles and post-translational protein deimination signatures in haemolymph of the American lobster (<i>Homarus americanus</i>). <i>Fish and Shellfish Immunology</i> , 2020 , 106, 79-102	4.3	10
23	Post-Translational Protein Deimination Signatures in Serum and Serum-Extracellular Vesicles of Reveal Immune, Anti-Pathogenic, Anti-Viral, Metabolic and Cancer-Related Pathways for Deimination. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
22	Three-dimensional reconstruction of synapses and dendritic spines in the rat and ground squirrel hippocampus: new structural-functional paradigms for synaptic function. <i>Neuroscience and Behavioral Physiology</i> , 2005 , 35, 333-41	0.3	8
21	Dendritic spine and synapse morphological alterations induced by a neural cell adhesion molecule mimetic. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 663, 373-83	3.6	7
20	Astroglial biophysics probed with a realistic cell model		5
19	Age-related ultrastructural neurovascular changes in the female mouse cortex and hippocampus. <i>Neurobiology of Aging</i> , 2021 , 101, 273-284	5.6	5
18	Peptidylarginine Deiminase Inhibitor Application, Using Cl-Amidine, PAD2, PAD3 and PAD4 Isozyme-Specific Inhibitors in Pancreatic Cancer Cells, Reveals Roles for PAD2 and PAD3 in Cancer Invasion and Modulation of Extracellular Vesicle Signatures. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
17	Auditory responses in a rodent model of Attention Deficit Hyperactivity Disorder. <i>Brain Research</i> , 2015 , 1629, 10-25	3.7	4
16	Repeated intermittent oral amphetamine administration results in locomotor tolerance not sensitization. <i>Journal of Psychopharmacology</i> , 2018 , 32, 949-954	4.6	3
15	Post-Translational Protein Deimination Signatures in Plasma and Plasma EVs of Reindeer (). <i>Biology</i> , 2021 , 10,	4.9	3
14	The Proteome and Citrullinome of Extracellular Vesicles-Novel Insights into Roles of the Serum Secretome in Immune, Gene Regulatory and Metabolic Pathways. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
13	Extracellular Vesicle Signatures and Post-Translational Protein Deimination in Purple Sea Urchin () Coelomic Fluid-Novel Insights into Echinodermata Biology. <i>Biology</i> , 2021 , 10,	4.9	3
12	Attenuation of the extracellular matrix increases the number of synapses but suppresses synaptic plasticity through upregulation of SK channels. <i>Cell Calcium</i> , 2021 , 96, 102406	4	2

11	Post-translational protein deimination signatures in sea lamprey (<i>Petromyzon marinus</i>) plasma and plasma-extracellular vesicles. <i>Developmental and Comparative Immunology</i> , 2021 , 125, 104225	3.2	2
10	Chronic amphetamine treatment affects collicular-dependent behaviour. <i>Behavioural Brain Research</i> , 2018 , 343, 1-7	3.4	1
9	Chronic amphetamine enhances visual input to and suppresses visual output from the superior colliculus in withdrawal. <i>Neuropharmacology</i> , 2018 , 138, 118-129	5.5	1
8	Three-dimensional ultrastructural and immunohistochemical study of immature neurons in the subgranular zone of the rat dentate gyrus. <i>Biophysics (Russian Federation)</i> , 2009 , 54, 497-512	0.7	1
7	Preliminary Investigations Into the Effect of Exercise-Induced Muscle Damage on Systemic Extracellular Vesicle Release in Trained Younger and Older Men. <i>Frontiers in Physiology</i> , 2021 , 12, 723931	4.6	1
6	Photon radiation-induced structural and functional changes in the myocardium of hypertensive spontaneously hypertensive rats. <i>Biophysics (Russian Federation)</i> , 2008 , 53, 452-456	0.7	
5	Protective effect of hypothermia on brain neurons in rats exposed to ionizing radiation. <i>Biophysics (Russian Federation)</i> , 2007 , 52, 344-349	0.7	
4	Study of nuclear remodeling in reconstructed mouse embryos by optical and electron microscopy. <i>Doklady Biochemistry and Biophysics</i> , 2007 , 417, 306-10	0.8	
3	Three-dimensional word of synapse: 3D-reconstructions of hippocampal synapses using serial ultrathin sections for demonstration of multiple-synapses in both dendritic spines and presynaptic boutons. <i>Journal of Physiology (Paris)</i> , 2006 , 99, 2-3		
2	Effect of ionizing radiation on the protein-synthesizing system of brain neurons of ground squirrels in different functional states. <i>Biophysics (Russian Federation)</i> , 2006 , 51, 270-276	0.7	
1	Changes of activity of the protein-synthesizing system of brain neurons of the ground squirrel <i>Citellus undulatus</i> during hibernation and hypothermia. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2006 , 42, 299-307	0.5	