

Igor V Kraev

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,893
citations

279798

23
h-index

276875

41
g-index

75
all docs

75
docs citations

75
times ranked

2116
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.3	180
2	LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. <i>Neuron</i> , 2020, 108, 919-936.e11.	8.1	159
3	Forebrain CRF ¹ Modulates Early-Life Stress-Programmed Cognitive Deficits. <i>Journal of Neuroscience</i> , 2011, 31, 13625-13634.	3.6	154
4	Glia selectively approach synapses on thin dendritic spines. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20140047.	4.0	105
5	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, 3368-3378.	2.6	85
6	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, 1148-1158.	5.4	69
7	Disentangling astroglial physiology with a realistic cell model in silico. <i>Nature Communications</i> , 2018, 9, 3554.	12.8	65
8	Cannabidiol Is a Novel Modulator of Bacterial Membrane Vesicles. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 324.	3.9	63
9	Peptidylarginine Deiminases Post-Translationally Deiminate Prohibitin and Modulate Extracellular Vesicle Release and MicroRNAs in Glioblastoma Multiforme. <i>International Journal of Molecular Sciences</i> , 2019, 20, 103.	4.1	63
10	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.	3.9	61
11	Cannabidiol Affects Extracellular Vesicle Release, miR21 and miR126, and Reduces Prohibitin Protein in Glioblastoma Multiforme Cells. <i>Translational Oncology</i> , 2019, 12, 513-522.	3.7	55
12	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, 301-314.	2.6	45
13	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, 1495.	4.1	43
14	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.	3.9	39
15	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, 1170-1181.	2.3	32
16	Hippocampal circuit dysfunction in the Tc1 mouse model of Down syndrome. <i>Nature Neuroscience</i> , 2015, 18, 1291-1298.	14.8	32
17	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.	2.3	30
18	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.	1.9	29

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19	Early Structural and Functional Defects in Synapses and Myelinated Axons in Stratum Lacunosum Moleculare in Two Preclinical Models for Tauopathy. PLoS ONE, 2014, 9, e87605.	2.5	28
20	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (<i>Heterocephalus glaber</i>). International Journal of Molecular Sciences, 2019, 20, 5378.	4.1	27
21	Extracellular vesicles, deiminated protein cargo and microRNAs are novel serum biomarkers for environmental rearing temperature in Atlantic cod (<i>Gadus morhua</i> L.). Aquaculture Reports, 2020, 16, 100245.	1.7	27
22	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. Developmental and Comparative Immunology, 2019, 101, 103437.	2.3	25
23	Deiminated proteins in extracellular vesicles and plasma of nurse shark (<i>Ginglymostoma cirratum</i>) - Novel insights into shark immunity. Fish and Shellfish Immunology, 2019, 92, 249-255.	3.6	25
24	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. International Journal of Molecular Sciences, 2020, 21, 2743.	4.1	23
25	Partial kindling induces neurogenesis, activates astrocytes and alters synaptic morphology in the dentate gyrus of freely moving adult rats. Neuroscience, 2009, 162, 254-267.	2.3	22
26	Deiminated proteins in extracellular vesicles and serum of llama (<i>Lama glama</i>) - Novel insights into camelid immunity. Molecular Immunology, 2020, 117, 37-53.	2.2	22
27	A Peptide Mimetic Targeting Trans-Homophilic NCAM Binding Sites Promotes Spatial Learning and Neural Plasticity in the Hippocampus. PLoS ONE, 2011, 6, e23433.	2.5	21
28	Altered visual processing in a rodent model of Attention-Deficit Hyperactivity Disorder. Neuroscience, 2015, 303, 364-377.	2.3	21
29	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. Neuroscience, 2010, 171, 390-397.	2.3	20
30	Protein Deimination and Extracellular Vesicle Profiles in Antarctic Seabirds. Biology, 2020, 9, 15.	2.8	20
31	Deiminated proteins and extracellular vesicles - Novel serum biomarkers in whales and orca. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2020, 34, 100676.	1.0	19
32	Multiple spine boutons are formed after long-lasting LTP in the awake rat. Brain Structure and Function, 2014, 219, 407-414.	2.3	18
33	Suspension of Mitotic Activity in Dentate Gyrus of the Hibernating Ground Squirrel. Neural Plasticity, 2011, 2011, 1-7.	2.2	17
34	Structure and Complexity of the Synapse and Dendritic Spine. , 2014, , 1-20.		17
35	Dysfunctional Dopaminergic Neurons in Mouse Models of Huntington's Disease: A Role for SK3 Channels. Neurodegenerative Diseases, 2015, 15, 93-108.	1.4	17
36	Post-Translational Protein Deimination Signatures in Serum and Serum-Extracellular Vesicles of <i>Bos taurus</i> Reveal Immune, Anti-Pathogenic, Anti-Viral, Metabolic and Cancer-Related Pathways for Deimination. International Journal of Molecular Sciences, 2020, 21, 2861.	4.1	17

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37	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, 1396.	4.1	17
38	Deimination Protein Profiles in Alligator mississippiensis Reveal Plasma and Extracellular Vesicle-Specific Signatures Relating to Immunity, Metabolic Function, and Gene Regulation. <i>Frontiers in Immunology</i> , 2020, 11, 651.	4.8	16
39	Extracellular Vesicles and Post-Translational Protein Deimination Signatures in Molluscaâ€”The Blue Mussel (<i>Mytilus edulis</i>), Soft Shell Clam (<i>Mya arenaria</i>), Eastern Oyster (<i>Crassostrea virginica</i>) and Atlantic Jackknife Clam (<i>Ensis leei</i>). <i>Biology</i> , 2020, 9, 416.	2.8	13
40	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.	3.6	13
41	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.	2.6	13
42	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.	2.3	12
43	Age-Induced Loss of Mossy Fibre Synapses on CA3 Thorns in the CA3 Stratum Lucidum. <i>Neuroscience Journal</i> , 2013, 2013, 1-8.	2.5	11
44	Age-related ultrastructural neurovascular changes in the female mouse cortex and hippocampus. <i>Neurobiology of Aging</i> , 2021, 101, 273-284.	3.1	11
45	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.	2.4	10
46	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.	2.8	10
47	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, 333-341.	0.4	9
48	Investigation of the microstructure and phase evolution across multi-material Ni50.83Ti49.17-AISI 316L alloy interface fabricated using laser powder bed fusion (L-PBF). <i>Materials and Design</i> , 2022, 221, 110947.	7.0	8
49	The Proteome and Citrullinome of Hippoglossus hippoglossus Extracellular Vesiclesâ€”Novel Insights into Roles of the Serum Secretome in Immune, Gene Regulatory and Metabolic Pathways. <i>International Journal of Molecular Sciences</i> , 2021, 22, 875.	4.1	7
50	Dendritic Spine and Synapse Morphological Alterations Induced by a Neural Cell Adhesion Molecule Mimetic. <i>Advances in Experimental Medicine and Biology</i> , 2010, 663, 373-383.	1.6	7
51	Extracellular Vesicle Signatures and Post-Translational Protein Deimination in Purple Sea Urchin (<i>Strongylocentrotus purpuratus</i>) Coelomic Fluidâ€”Novel Insights into Echinodermata Biology. <i>Biology</i> , 2021, 10, 866.	2.8	6
52	Auditory responses in a rodent model of Attention Deficit Hyperactivity Disorder. <i>Brain Research</i> , 2015, 1629, 10-25.	2.2	5
53	Repeated intermittent oral amphetamine administration results in locomotor tolerance not sensitization. <i>Journal of Psychopharmacology</i> , 2018, 32, 949-954.	4.0	5
54	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.	2.3	5

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55	Post-Translational Protein Deimination Signatures in Plasma and Plasma EVs of Reindeer (Rangifer) Tj ETQq1 1 0.784314 rgBT ₄ /Overlo	2.8	4
56	Extracellular Vesicles Inhibit the Response of Pancreatic Ductal Adenocarcinoma Cells to Gemcitabine and TRAIL Treatment. International Journal of Molecular Sciences, 2022, 23, 7810.	4.1	3
57	LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Astroglia. SSRN Electronic Journal, 0, , .	0.4	2
58	Acute Hypoxia Alters Extracellular Vesicle Signatures and the Brain Citrullinome of Naked Mole-Rats (Heterocephalus glaber). International Journal of Molecular Sciences, 2022, 23, 4683.	4.1	2
59	Three-dimensional ultrastructural and immunohistochemical study of immature neurons in the subgranular zone of the rat dentate gyrus. Biophysics (Russian Federation), 2009, 54, 497-512.	0.7	1
60	Chronic amphetamine treatment affects collicular-dependent behaviour. Behavioural Brain Research, 2018, 343, 1-7.	2.2	1
61	Chronic amphetamine enhances visual input to and suppresses visual output from the superior colliculus in withdrawal. Neuropharmacology, 2018, 138, 118-129.	4.1	1
62	Effect of ionizing radiation on the protein-synthesizing system of brain neurons of ground squirrels in different functional states. Biophysics (Russian Federation), 2006, 51, 270-276.	0.7	0
63	Changes of activity of the protein-synthesizing system of brain neurons of the ground squirrel Citellus undulatus during hibernation and hypothermia. Journal of Evolutionary Biochemistry and Physiology, 2006, 42, 299-307.	0.6	0
64	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. Journal of Physiology (Paris), 2006, 99, 2-3.	2.1	0
65	Protective effect of hypothermia on brain neurons in rats exposed to ionizing radiation. Biophysics (Russian Federation), 2007, 52, 344-349.	0.7	0
66	Study of nuclear remodeling in reconstructed mouse embryos by optical and electron microscopy. Doklady Biochemistry and Biophysics, 2007, 417, 306-310.	0.9	0
67	Photon radiation-induced structural and functional changes in the myocardium of hypertensive spontaneously hypertensive rats. Biophysics (Russian Federation), 2008, 53, 452-456.	0.7	0
68	Dendritic Spine and Synapse Morphological Alterations Induced by a Neural Cell Adhesion Molecule (NCAM) Mimetic. Neurochemical Research, 2008, , 373.	3.3	0
69	Positive changes in the myocardium of SHR rats induced by photon radiation. , 2008, , .		0
70	ULTRASTRUCTURE OF ASTROCYTIC COVERAGE OF DENDRITIC SPINES IN OUTER CORTICAL LAYERS OF THE SOMATOSENSORY CORTEX. , 2020, , .		0