Igor V Kraev

List of Publications by Year in Descending Order

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	Post-Translational Protein Deimination Signatures in Plasma and Plasma EVs of Reindeer (). *Biology*, **2021**, 10,	4.9	3
63	Attenuation of the extracellular matrix increases the number of synapses but suppresses synaptic plasticity through upregulation of SK channels. *Cell Calcium*, **2021**, 96, 102406	4	2
62	Age-related ultrastructural neurovascular changes in the female mouse cortex and hippocampus. *Neurobiology of Aging*, **2021**, 101, 273-284	5.6	5
61	The Proteome and Citrullinome of Extracellular Vesicles-Novel Insights into Roles of the Serum Secretome in Immune, Gene Regulatory and Metabolic Pathways. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
60	Preliminary Investigations Into the Effect of Exercise-Induced Muscle Damage on Systemic Extracellular Vesicle Release in Trained Younger and Older Men. *Frontiers in Physiology*, **2021**, 12, 723931	4.6	1
59	Extracellular Vesicle Signatures and Post-Translational Protein Deimination in Purple Sea Urchin () Coelomic Fluid-Novel Insights into Echinodermata Biology. *Biology*, **2021**, 10,	4.9	3
58	Post-translational protein deimination signatures in sea lamprey (Petromyzon marinus) plasma and plasma-extracellular vesicles. *Developmental and Comparative Immunology*, **2021**, 125, 104225	3.2	2
57	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. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
56	Deiminated proteins and extracellular vesicles - Novel serum biomarkers in whales and orca. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2020**, 34, 100676	2	14
55	Deiminated proteins and extracellular vesicles as novel biomarkers in pinnipeds: Grey seal (Halichoerus gryptus) and harbour seal (Phoca vitulina). *Biochimie*, **2020**, 171-172, 79-90	4.6	12
54	Peptidylarginine Deiminase Isozyme-Specific PAD2, PAD3 and PAD4 Inhibitors Differentially Modulate Extracellular Vesicle Signatures and Cell Invasion in Two Glioblastoma Multiforme Cell Lines. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	21
53	Protein Deimination and Extracellular Vesicle Profiles in Antarctic Seabirds. *Biology*, **2020**, 9,	4.9	15
52	Deimination Protein Profiles in Reveal Plasma and Extracellular Vesicle-Specific Signatures Relating to Immunity, Metabolic Function, and Gene Regulation. *Frontiers in Immunology*, **2020**, 11, 651	8.4	12
51	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. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	9
50	Post-translational protein deimination signatures and extracellular vesicles (EVs) in the Atlantic horseshoe crab (Limulus polyphemus). *Developmental and Comparative Immunology*, **2020**, 110, 103714	3.2	12
49	Extracellular vesicles, deiminated protein cargo and microRNAs are novel serum biomarkers for environmental rearing temperature in Atlantic cod (Gadus morhua L.). *Aquaculture Reports*, **2020**, 16, 100245	2.3	18
48	Deiminated proteins in extracellular vesicles and serum of llama (Lama glama)-Novel insights into camelid immunity. *Molecular Immunology*, **2020**, 117, 37-53	4.3	15

47	Extracellular Vesicles and Post-Translational Protein Deimination Signatures in Mollusca-The Blue Mussel (), Soft Shell Clam (), Eastern Oyster () and Atlantic Jacknife Clam (). *Biology*, **2020**, 9,	4.9	10
46	Extracellular vesicles and post-translational protein deimination signatures in haemolymph of the American lobster (Homarus americanus). *Fish and Shellfish Immunology*, **2020**, 106, 79-102	4.3	10
45	LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. *Neuron*, **2020**, 108, 919-936.e11	13.9	65
44	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,	6.3	11
43	Cannabidiol Is a Novel Modulator of Bacterial Membrane Vesicles. *Frontiers in Cellular and Infection Microbiology*, **2019**, 9, 324	5.9	27
42	Extracellular vesicles from cod (Gadus morhua L.) mucus contain innate immune factors and deiminated protein cargo. *Developmental and Comparative Immunology*, **2019**, 99, 103397	3.2	23
41	Deiminated proteins in extracellular vesicles and plasma of nurse shark (Ginglymostoma cirratum) - Novel insights into shark immunity. *Fish and Shellfish Immunology*, **2019**, 92, 249-255	4.3	21
40	Complement component C4-like protein in Atlantic cod (Gadus morhua L.) - Detection in ontogeny and identification of post-translational deimination in serum and extracellular vesicles. *Developmental and Comparative Immunology*, **2019**, 101, 103437	3.2	18
39	Peptidylarginine Deiminase Inhibitors Reduce Bacterial Membrane Vesicle Release and Sensitize Bacteria to Antibiotic Treatment. *Frontiers in Cellular and Infection Microbiology*, **2019**, 9, 227	5.9	38
38	Multi-input Synapses, but Not LTP-Strengthened Synapses, Correlate with Hippocampal Memory Storage in Aged Mice. *Current Biology*, **2019**, 29, 3600-3610.e4	6.3	14
37	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (). *International Journal of Molecular Sciences*, **2019**, 20,	6.3	21
36	Cannabidiol Affects Extracellular Vesicle Release, miR21 and miR126, and Reduces Prohibitin Protein in Glioblastoma Multiforme Cells. *Translational Oncology*, **2019**, 12, 513-522	4.9	27
35	Chronic amphetamine treatment affects collicular-dependent behaviour. *Behavioural Brain Research*, **2018**, 343, 1-7	3.4	1
34	Repeated intermittent oral amphetamine administration results in locomotor tolerance not sensitization. *Journal of Psychopharmacology*, **2018**, 32, 949-954	4.6	3
33	Chronic amphetamine enhances visual input to and suppresses visual output from the superior colliculus in withdrawal. *Neuropharmacology*, **2018**, 138, 118-129	5.5	1
32	Peptidylarginine Deiminases Post-Translationally Deiminate Prohibitin and Modulate Extracellular Vesicle Release and MicroRNAs in Glioblastoma Multiforme. *International Journal of Molecular Sciences*, **2018**, 20,	6.3	40
31	Disentangling astroglial physiology with a realistic cell model in silico. *Nature Communications*, **2018**, 9, 3554	17.4	41
30	Generation of multi-innervated dendritic spines as a novel mechanism of long-term memory formation. *Neurobiology of Learning and Memory*, **2015**, 124, 48-51	3.1	18

29	Hippocampal circuit dysfunction in the Tc1 mouse model of Down syndrome. *Nature Neuroscience*, **2015**, 18, 1291-1298	25.5	26
28	Altered visual processing in a rodent model of Attention-Deficit Hyperactivity Disorder. *Neuroscience*, **2015**, 303, 364-77	3.9	17
27	Auditory responses in a rodent model of Attention Deficit Hyperactivity Disorder. *Brain Research*, **2015**, 1629, 10-25	3.7	4
26	Dysfunctional Dopaminergic Neurones in Mouse Models of Huntington's Disease: A Role for SK3 Channels. *Neurodegenerative Diseases*, **2015**, 15, 93-108	2.3	15
25	Structure and Complexity of the Synapse and Dendritic Spine **2014**, 1-20		12
24	Impaired hippocampal neuroligin-2 function by chronic stress or synthetic peptide treatment is linked to social deficits and increased aggression. *Neuropsychopharmacology*, **2014**, 39, 1148-58	8.7	60
23	Glia selectively approach synapses on thin dendritic spines. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20140047	5.8	67
22	Multiple spine boutons are formed after long-lasting LTP in the awake rat. *Brain Structure and Function*, **2014**, 219, 407-14	4	16
21	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	3.7	21
20	Age-Induced Loss of Mossy Fibre Synapses on CA3 Thorns in the CA3 Stratum Lucidum. *Neuroscience Journal*, **2013**, 2013, 839535	4.2	11
19	A peptide mimetic targeting trans-homophilic NCAM binding sites promotes spatial learning and neural plasticity in the hippocampus. *PLoS ONE*, **2011**, 6, e23433	3.7	19
18	Suspension of mitotic activity in dentate gyrus of the hibernating ground squirrel. *Neural Plasticity*, **2011**, 2011, 867525	3.3	15
17	Forebrain CRF modulates early-life stress-programmed cognitive deficits. *Journal of Neuroscience*, **2011**, 31, 13625-34	6.6	123
16	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. *Neuroscience*, **2010**, 165, 1170-81	3.9	30
15	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, 390-7	3.9	16
14	Dendritic spine and synapse morphological alterations induced by a neural cell adhesion molecule mimetic. *Advances in Experimental Medicine and Biology*, **2010**, 663, 373-83	3.6	7
13	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
12	Partial kindling induces neurogenesis, activates astrocytes and alters synaptic morphology in the dentate gyrus of freely moving adult rats. *Neuroscience*, **2009**, 162, 254-67	3.9	22

11	Photon radiation-induced structural and functional changes in the myocardium of hypertensive spontaneously hypertensive rats. *Biophysics (Russian Federation)*, **2008**, 53, 452-456	0.7	
10	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. *European Journal of Neuroscience*, **2008**, 27, 301-14	3.5	41
9	Protective effect of hypothermia on brain neurons in rats exposed to ionizing radiation. *Biophysics (Russian Federation)*, **2007**, 52, 344-349	0.7	
8	Study of nuclear remodeling in reconstructed mouse embryos by optical and electron microscopy. *Doklady Biochemistry and Biophysics*, **2007**, 417, 306-10	0.8	
7	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		
6	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	
5	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	0.5	
4	Stress suppresses and learning induces plasticity in CA3 of rat hippocampus: a three-dimensional ultrastructural study of thorny excrescences and their postsynaptic densities. *Neuroscience*, **2005**, 131, 43-54	3.9	168
3	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. *European Journal of Neuroscience*, **2005**, 21, 3368-78	3.5	66
2	Three-dimensional reconstruction of synapses and dendritic spines in the rat and ground squirrel hippocampus: new structural-functional paradigms for synaptic function. *Neuroscience and Behavioral Physiology*, **2005**, 35, 333-41	0.3	8
1	Astroglial biophysics probed with a realistic cell model		5