

# Konstantin V Anokhin

## List of Publications by Year in descending order

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98  
papers

2,116  
citations

304743

22  
h-index

254184

43  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mice display learning and behavioral deficits after a 30-day spaceflight on Bion-M1 satellite. <i>Behavioural Brain Research</i> , 2022, 419, 113682.	2.2	3
2	Calcium Imaging Reveals Fast Tuning Dynamics of Hippocampal Place Cells and CA1 Population Activity during Free Exploration Task in Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 638.	4.1	6
3	Spatiotemporal 3D image registration for mesoscale studies of brain development. <i>Scientific Reports</i> , 2022, 12, 3648.	3.3	0
4	The Rapid Formation of CA1 Hippocampal Cognitive Map in Mice Exploring a Novel Environment. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 452-457.	0.6	0
5	Traumatic memory: Molecular and cellular mechanisms of post-traumatic stress disorder. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
6	A Birst of LINE1 and IAP Retrotransposon Expression in the Mouse Brain Following Acute Behavioral Stress. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
7	The Rapid Place Field Tuning in Mice Exploring a Novel Environment. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
8	Patterns of Cellular Overlap in Expression of c-Fos and Arc Activity-Regulated Genes in the Mouse Brain Regions During Acquisition and Retrieval of Contextual Conditioned Fear. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
9	The Laplacian eigenmaps dimensionality reduction of fMRI data for discovering stimulus-induced changes in the resting-state brain activity. <i>NeuroImage Reports</i> , 2021, 1, 100035.	1.0	3
10	Early Induction of Neurotrophin Receptor and miRNA Genes in Mouse Brain after Pentilenetetrazole-Induced Neuronal Activity. <i>Biochemistry (Moscow)</i> , 2021, 86, 1326-1341.	1.5	3
11	FRCaMP, a Red Fluorescent Genetically Encoded Calcium Indicator Based on Calmodulin from <i>Schizosaccharomyces Pombe</i> Fungus. <i>International Journal of Molecular Sciences</i> , 2021, 22, 111.	4.1	7
12	Neuronal encoding of objects and place in hippocampus: the value of objects shapes memory. , 2021, , .		0
13	Calcium activity of retrosplenial cortex during place and object recognition in mice. , 2021, , .		0
14	Urokinase receptor and tissue plasminogen activator as immediate-early genes in pentylenetetrazole-induced seizures in the mouse brain. <i>European Journal of Neuroscience</i> , 2020, 51, 1559-1572.	2.6	7
15	All-Optical Brain Thermometry in Freely Moving Animals. <i>ACS Photonics</i> , 2020, 7, 3353-3360.	6.6	12
16	The architecture of neural networks for enhanced autobiographical memory access: a functional MRI study. <i>Procedia Computer Science</i> , 2020, 169, 787-794.	2.0	1
17	Multisite cell-and neural-dynamics-resolving deep brain imaging in freely moving mice with implanted reconnectable fiber bundles. <i>Journal of Biophotonics</i> , 2020, 13, e202000081.	2.3	11
18	Novel Genetically Encoded Bright Positive Calcium Indicator NCaMP7 Based on the mNeonGreen Fluorescent Protein. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1644.	4.1	33

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19	FGCaMP7, an Improved Version of Fungi-Based Ratiometric Calcium Indicator for In Vivo Visualization of Neuronal Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3012.	4.1	17
20	Mapping the Neural Substrates of Recent and Remote Visual Imprinting Memory in the Chick Brain. <i>Frontiers in Physiology</i> , 2019, 10, 351.	2.8	8
21	Near-Infrared Genetically Encoded Positive Calcium Indicator Based on GAF-FP Bacterial Phytochrome. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3488.	4.1	28
22	Slowly Reducible Genetically Encoded Green Fluorescent Indicator for In Vivo and Ex Vivo Visualization of Hydrogen Peroxide. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3138.	4.1	24
23	Involvement of Adult-born and Preexisting Olfactory Bulb and Dentate Gyrus Neurons in Single-trial Olfactory Memory Acquisition and Retrieval. <i>Neuroscience</i> , 2019, 422, 75-87.	2.3	3
24	The Arc gene: Retroviral heritage in cognitive functions. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 99, 275-281.	6.1	16
25	Two-photon imaging of fiber-coupled neurons. <i>Journal of Biophotonics</i> , 2018, 11, e201600203.	2.3	8
26	Reconnectable fiberscopes for chronic in vivo deep-brain imaging. <i>Journal of Biophotonics</i> , 2018, 11, e201700106.	2.3	9
27	Prenatal Sensory Stimulation Induces BDNF Gene Expression in the Brain and Potentiates the Development of Species-Specific Predisposition in Newborn Chicks. <i>Bulletin of Experimental Biology and Medicine</i> , 2018, 166, 229-232.	0.8	2
28	Recovery of Impaired Memory: Expression of c-Fos and Egr-1 Transcription Factors during Restoration of Damaged Engram in the Chick Brain. <i>Biochemistry (Moscow)</i> , 2018, 83, 1117-1123.	1.5	4
29	NTnC-like genetically encoded calcium indicator with a positive and enhanced response and fast kinetics. <i>Scientific Reports</i> , 2018, 8, 15233.	3.3	24
30	Radiation Induces Distinct Changes in Defined Subpopulations of Neural Stem and Progenitor Cells in the Adult Hippocampus. <i>Frontiers in Neuroscience</i> , 2018, 12, 1013.	2.8	24
31	Three-dimensional fiber-optic readout of single-neuron-resolved fluorescence in living brain of transgenic mice. <i>Journal of Biophotonics</i> , 2017, 10, 775-779.	2.3	8
32	Quantitative cognitive-test characterization of reconnectable implantable fiber-optic neurointerfaces for optogenetic neurostimulation. <i>Journal of Biophotonics</i> , 2017, 10, 1485-1491.	2.3	8
33	Adaptation to a blood pressure telemetry system revealed by measures of activity, agility and operant learning in mice. <i>Journal of Pharmacological and Toxicological Methods</i> , 2017, 85, 29-37.	0.7	2
34	Comprehensive transcriptome analysis of neocortical layers in humans, chimpanzees and macaques. <i>Nature Neuroscience</i> , 2017, 20, 886-895.	14.8	101
35	DALMATIAN: An Algorithm for Automatic Cell Detection and Counting in 3D. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 117.	1.7	15
36	Green fluorescent genetically encoded calcium indicator based on calmodulin/M13-peptide from fungi. <i>PLoS ONE</i> , 2017, 12, e0183757.	2.5	22

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37	Lentiviral Transduction of Neurons in Adult Brain: Evaluation of Inflammatory Response and Cognitive Effects in Mice. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 161, 316-319.	0.8	6
38	A new design for a green calcium indicator with a smaller size and a reduced number of calcium-binding sites. <i>Scientific Reports</i> , 2016, 6, 34447.	3.3	35
39	Paradoxical Effect of NMDA Receptor Blockade in Chicks on Learning and Memory in Passive Avoidance Model. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 162, 1-3.	0.8	7
40	Waves of c-Fos and Arc Proteins Expression in Neuronal Populations of the Hippocampus in Response to a Single Episode of New Experience. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 160, 729-732.	0.8	11
41	Pro-Cognitive Effects of Non-Peptide Analogues of Soluble Amyloid Peptide Precursor Fragment sAPP. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 161, 447-450.	0.8	0
42	Clustered c-Fos Activation in Rat Hippocampus at the Acquisition Stage of Appetitive Instrumental Learning. <i>Journal of Behavioral and Brain Science</i> , 2015, 05, 69-80.	0.5	0
43	Neurophotonics: optical methods to study and control the brain. <i>Physics-Uspexhi</i> , 2015, 58, 345-364.	2.2	38
44	Involvement of Protein Kinase M $\bar{I}$ q in the Maintenance of Long-Term Memory for Taste Aversion Learning in Young Chicks. <i>Bulletin of Experimental Biology and Medicine</i> , 2015, 158, 592-594.	0.8	1
45	Lasting downregulation of the lipid peroxidation enzymes in the prefrontal cortex of mice susceptible to stress-induced anhedonia. <i>Behavioural Brain Research</i> , 2015, 276, 118-129.	2.2	32
46	Formation of Spatial and Nonspatial Memory in Different Condensed Versions of Short-Term Learning in Morris Water Maze. <i>Bulletin of Experimental Biology and Medicine</i> , 2014, 156, 602-604.	0.8	3
47	Mice in Bion-M 1 Space Mission: Training and Selection. <i>PLoS ONE</i> , 2014, 9, e104830.	2.5	88
48	Brain Morphology Imaging by 3D Microscopy and Fluorescent Nissl Staining. <i>Bulletin of Experimental Biology and Medicine</i> , 2013, 155, 399-402.	0.8	1
49	The differential effects of chronic imipramine or citalopram administration on physiological and behavioral outcomes in na $\bar{A}$ -ve mice. <i>Behavioural Brain Research</i> , 2013, 245, 101-106.	2.2	23
50	Contrasting of Biological Samples for X-Ray Synchrotron Microtomography. <i>Bulletin of Experimental Biology and Medicine</i> , 2013, 155, 413-416.	0.8	3
51	Statistic Parametric Mapping of Changes in Gene Activity in Animal Brain during Acoustic Stimulation. <i>Bulletin of Experimental Biology and Medicine</i> , 2013, 154, 697-699.	0.8	2
52	Network activity of mirror neurons depends on experience. <i>Journal of Integrative Neuroscience</i> , 2013, 12, 35-46.	1.7	3
53	Raman detection of cell proliferation probes with antiresonance-guiding hollow fibers. <i>Optics Letters</i> , 2012, 37, 4642.	3.3	18
54	Air-guided photonic-crystal-fiber pulse-compression delivery of multimegawatt femtosecond laser output for nonlinear-optical imaging and neurosurgery. <i>Applied Physics Letters</i> , 2012, 100, 101104.	3.3	15

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55	Increased 5-Bromo-2â€™-Deoxyuridine Incorporation in Various Brain Structures Following Passive Avoidance Training in Mice. Bulletin of Experimental Biology and Medicine, 2012, 153, 591-593.	0.8	3
56	Multicolor in vivo brain imaging with a microscope-coupled fiber-bundle microprobe. Applied Physics Letters, 2012, 101, 233702.	3.3	16
57	5-Bromo-2â€™-Deoxyuridine Impairs Long-Term Food Aversion Memory in Edible Snail. Bulletin of Experimental Biology and Medicine, 2012, 153, 767-770.	0.8	2
58	Specific Changes in c-fos Expression and Colocalization with DNA in Identified Neuronal Nuclei of Edible Snail Following Neurotransmitter Application. Bulletin of Experimental Biology and Medicine, 2012, 153, 734-737.	0.8	3
59	Immunohistochemical Detection of Two Neuronal Populations Involved in Two Different Episodes of Animal Cognitive Activity. Bulletin of Experimental Biology and Medicine, 2012, 154, 115-117.	0.8	2
60	Detection of Trace Processes in the Networks of Neurons Cultured on Microelectrode Arrays. Bulletin of Experimental Biology and Medicine, 2012, 153, 594-597.	0.8	1
61	Glutamate Receptor Modulator Dimebon Stimulates Consolidation and Reconsolidation of Weak Memory in Chicks. Bulletin of Experimental Biology and Medicine, 2012, 153, 714-716.	0.8	4
62	Recovery of Impaired Memory and c-fos Gene Expression in Brains of Amnesic Animals in Response to Reminder Stimulation. Bulletin of Experimental Biology and Medicine, 2012, 153, 738-741.	0.8	5
63	Effects of Systemic Administration of Histone Deacetylase Inhibitor on Memory Formation and Immediate Early Gene Expression in Chick Brain. Bulletin of Experimental Biology and Medicine, 2012, 153, 742-745.	0.8	4
64	Fiber-optic Raman sensing of cell proliferation probes and molecular vibrations: Brain-imaging perspective. Applied Physics Letters, 2012, 101, .	3.3	8
65	Enhancing the locality of optical interrogation with photonic-crystal fibers. Applied Physics Letters, 2012, 101, 021114.	3.3	9
66	Nonlinear-optical brain anatomy by harmonic-generation and coherent Raman microscopy on a compact femtosecond laser platform. Applied Physics Letters, 2011, 99, .	3.3	25
67	Photonic-crystal-fiber platform for multicolor multilabel neurophotonic studies. Applied Physics Letters, 2011, 98, .	3.3	22
68	Ionization penalty in nonlinear Raman neuroimaging. Optics Letters, 2011, 36, 508.	3.3	30
69	Fiber-probe detection for positron-emission-assisted Cherenkov-radiation brain mapping. Physical Review E, 2011, 84, 061902.	2.1	3
70	Food for Song: Expression of C-Fos and ZENK in the Zebra Finch Song Nuclei during Food Aversion Learning. PLoS ONE, 2011, 6, e21157.	2.5	19
71	An Interactive Method of Anatomical Segmentation and Gene Expression Estimation for an Experimental Mouse Brain Slice. Lecture Notes in Computer Science, 2011, , 86-97.	1.3	0
72	The brain and memory: The biology of traces of time past. Herald of the Russian Academy of Sciences, 2010, 80, 237-242.	0.6	6

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73	Fiber-optic probes for <i>in vivo</i> depth-resolved neuron activity mapping. Journal of Biophotonics, 2010, 3, 660-669.	2.3	16
74	Fibreoptic fluorescent microscopy in studying biological objects. Quantum Electronics, 2010, 40, 842-846.	1.0	8
75	Enhancement of Optical Transmission Capacity of Isolated Structures in the Brain of Mature Mice. Bulletin of Experimental Biology and Medicine, 2009, 147, 3-6.	0.8	8
76	Tailoring the soliton output of a photonic crystal fiber for enhanced two-photon excited luminescence response from fluorescent protein biomarkers and neuron activity reporters. Optics Letters, 2009, 34, 3373.	3.3	45
77	Towards a new developmental synthesis: adaptive developmental plasticity and human disease. Lancet, The, 2009, 373, 1654-1657.	13.7	368
78	Stable memory traces in the ever changing brain: Reality or delusion?. International Journal of Psychophysiology, 2008, 69, 136-137.	1.0	0
79	Genetic ablation of the mammillary bodies in the Foxb1 mutant mouse leads to selective deficit of spatial working memory. European Journal of Neuroscience, 2005, 21, 219-229.	2.6	33
80	Fos expression and task-related neuronal activity in rat cerebral cortex after instrumental learning. Neuroscience, 2005, 136, 33-42.	2.3	29
81	Apaf1-dependent programmed cell death is required for inner ear morphogenesis and growth. Development (Cambridge), 2004, 131, 2125-2135.	2.5	47
82	Genome of brain neurons in organization of systemic mechanisms of behavior. Bulletin of Experimental Biology and Medicine, 2003, 135, 107-113.	0.8	9
83	MEMORY RETRANSCRIPTION AT THE TIME OF RETRIEVAL: A CLUE TO DYNAMIC NATURE OF MEMORY. , 2002, , .		1
84	Reminder effects - reconsolidation or retrieval deficit? Pharmacological dissection with protein synthesis inhibitors following reminder for a passive-avoidance task in young chicks. European Journal of Neuroscience, 2002, 15, 1759-1765.	2.6	189
85	MAPPING OF MEMORY SYSTEMS' ARCHITECTURE BY INDUCIBLE TRANSCRIPTION FACTORS IN THE BRAIN. , 2002, , .		2
86	Stress-induced expression of fos in the rat brain: A comparison of averaging and typological analysis. Neuroscience Research Communications, 2000, 27, 95-102.	0.2	2
87	Chicken synucleins: cloning and expression in the developing embryo. Mechanisms of Development, 2000, 99, 195-198.	1.7	19
88	Two critical periods of protein and glycoprotein synthesis in memory consolidation for visual categorization learning in chicks.. Learning and Memory, 1998, 4, 401-410.	1.3	50
89	Three time windows for amnestic effect of antibodies to cell adhesion molecule L1 in chicks. NeuroReport, 1998, 9, 1645-1648.	1.2	33
90	Involvement of Glutamate Receptors, Protein Kinases, and Protein Synthesis in Memory for Visual Discrimination in the Young Chick. Neurobiology of Learning and Memory, 1996, 65, 233-243.	1.9	24

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91	oligodeoxynucleotides to c-fos are amnesic for passive avoidance in the chick. <i>NeuroReport</i> , 1996, 7, 1269-1272.	1.2	43
92	Differential splicing creates a diversity of transcripts from a neurospecific developmentally regulated gene encoding a protein with new zinc-finger motifs. <i>Nucleic Acids Research</i> , 1992, 20, 5579-5585.	14.5	25
93	A brief sketch of Soviet neuroscience. <i>Trends in Neurosciences</i> , 1991, 14, 229-231.	8.6	1
94	Effects of early experience on c-fos gene expression in the chick forebrain. <i>Brain Research</i> , 1991, 544, 101-107.	2.2	162
95	Learning-induced Increase of Immediate Early Gene Messenger RNA in the Chick Forebrain. <i>European Journal of Neuroscience</i> , 1991, 3, 162-167.	2.6	137
96	Azidothymidine-induced disturbance of long-term memory in mice. <i>Bulletin of Experimental Biology and Medicine</i> , 1988, 106, 1080-1082.	0.8	0
97	Central effects of the tetrapeptide tuftsin. <i>Bulletin of Experimental Biology and Medicine</i> , 1981, 92, 890-892.	0.8	7
98	Implantable graded-index fibers for neural dynamics-resolving brain imaging in awake mice on an air-lifted platform. <i>Journal of Biophotonics</i> , 0, , .	2.3	1