Vladimir L Katanaev

List of Publications by Year
in descending order

107	4,551	136950	114465
papers	citations	32 h-index	63 g-index

114	114	114	5977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mouse models characterize GNAO1 encephalopathy as a neurodevelopmental disorder leading to motor anomalies: from a severe G203R to a milder C215Y mutation. Acta Neuropathologica Communications, 2022, 10, 9.	5.2	16
2	Chlorin Endogenous to the North Pacific Brittle Star Ophiura sarsii for Photodynamic Therapy Applications in Breast Cancer and Glioblastoma Models. Biomedicines, 2022, 10, 134.	3.2	3
3	Gî±i2-induced conductin/axin2 condensates inhibit Wnt/Î²-catenin signaling and suppress cancer growth. Nature Communications, 2022, 13, 674.	12.8	15
4	Unlocking the Wnt pathway: Therapeutic potential of selective targeting FZD7 in cancer. Drug Discovery Today, 2022, 27, 777-792.	6.4	13
5	Local and substrate-specific S-palmitoylation determines subcellular localization of Gî±o. Nature Communications, 2022, 13, 2072.	12.8	19
6	Chemoenzymatic Synthesis of Original Stilbene Dimers Possessing Wnt Inhibition Activity in Triple-Negative Breast Cancer Cells Using the Enzymatic Secretome of Botrytis cinerea Pers.. Frontiers in Chemistry, 2022, 10, 881298.	3.6	7
7	Bactericidal and Antiviral Bionic Metalized Nanocoatings. Nanomaterials, 2022, 12, 1868.	4.1	5
8	Light Polarization by Biological Nanocoatings. ACS Applied Materials & Interfaces, 2021, 13, 23481-23488.	8.0	2
9	Macropinocytosis requires Gal-3 in a subset of patient-derived glioblastoma stem cells. Communications Biology, 2021, 4, 718.	4.4	14
10	Knockdown of Dehydrodolichyl Diphosphate Synthase in the Drosophila Retina Leads to a Unique Pattern of Retinal Degeneration. Frontiers in Molecular Neuroscience, 2021, 14, 693967.	2.9	5
11	Short stature and combined immunodeficiency associated with mutations in RGS10. Science Signaling, 2021, 14, .	3.6	2
12	Isolation and Identification of Isocoumarin Derivatives With Specific Inhibitory Activity Against Wnt Pathway and Metabolome Characterization of Lasiodiplodia venezuelensis. Frontiers in Chemistry, 2021, 9, 664489.	3.6	5
13	Embedding similarities between embryos and circulating tumor cells: fundamentals of abortifacients used for cancer metastasis chemoprevention. Journal of Experimental and Clinical Cancer Research, 2021, 40, 300.	8.6	3
14	Optimization of the clofazimine structure leads to a highly water-soluble C3-aminopyridinyl riminophenazine endowed with improved anti-Wnt and anti-cancer activity inÂvitro and inÂvivo. European Journal of Medicinal Chemistry, 2021, 222, 113562.	5.5	9
15	NOL7 facilitates melanoma progression and metastasis. Signal Transduction and Targeted Therapy, 2021, 6, 352.	17.1	5
16	Pediatric Encephalopathy: Clinical, Biochemical and Cellular Insights into the Role of Gln52 of GNAO1 and GNAI1 for the Dominant Disease. Cells, 2021, 10, 2749.	4.1	16
17	A Cytotoxic Porphyrin from North Pacific Brittle Star Ophiura sarsii. Marine Drugs, 2021, 19, 11.	4.6	7
18	Mining Natural Compounds to Target WNT Signaling: Land and Sea Tales. Handbook of Experimental Pharmacology, 2021, 269, 215-248.	1.8	6

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19	Chemoenzymatic Synthesis of Complex Phenylpropanoid Derivatives by the Botrytis cinerea Secretome and Evaluation of Their Wnt Inhibition Activity. Frontiers in Plant Science, 2021, 12, 805610.	3.6	5
20	WDR74 induces nuclear Î²-catenin accumulation and activates Wnt-responsive genes to promote lung cancer growth and metastasis. Cancer Letters, 2020, 471, 103-115.	7.2	24
21	Generation of Stilbene Antimicrobials against Multiresistant Strains of Staphylococcus aureus through Biotransformation by the Enzymatic Secretome of Botrytis cinerea. Journal of Natural Products, 2020, 83, 2347-2356.	3.0	13
22	The Signaling Duo CXCL12 and CXCR4: Chemokine Fuel for Breast Cancer Tumorigenesis. Cancers, 2020, 12, 3071.	3.7	43
23	Reverse and forward engineering of Drosophila corneal nanocoatings. Nature, 2020, 585, 383-389.	27.8	31
24	Beyond TNBC: Repositioning of Clofazimine Against a Broad Range of Wnt-Dependent Cancers. Frontiers in Oncology, 2020, 10, 602817.	2.8	16
25	HumanaFly: high-throughput transgenesis and expression of breast cancer transcripts in Drosophila eye discovers the RPS12-Wingless signaling axis. Scientific Reports, 2020, 10, 21013.	3.3	7
26	Humanization of Drosophila GÎ±o to Model GNAO1 Paediatric Encephalopathies. Biomedicines, 2020, 8, 395.	3.2	14
27	Small Molecule Wnt Pathway Modulators from Natural Sources: History, State of the Art and Perspectives. Cells, 2020, 9, 589.	4.1	23
28	One nanometer self-assembled aptamer-DNA dendrimers carry 350 doxorubicin: Super-stability and intra-nuclear DNA comet tail. Chemical Engineering Journal, 2020, 388, 124170.	12.7	10
29	WDR74 modulates melanoma tumorigenesis and metastasis through the RPL5â€“MDM2â€“p53 pathway. Oncogene, 2020, 39, 2741-2755.	5.9	17
30	<scp>LDL</scp> receptorâ€related protein <scp>LRP</scp> 6 senses nutrient levels and regulates Hippo signaling. EMBO Reports, 2020, 21, e50103.	4.5	11
31	The Anticancer Drug Discovery Potential of Marine Invertebrates from Russian Pacific. Marine Drugs, 2019, 17, 474.	4.6	16
32	Information Theory: New Look at Oncogenic Signaling Pathways. Trends in Cell Biology, 2019, 29, 862-875.	7.9	30
33	Simultaneous blocking of CD47 and PD-L1 increases innate and adaptive cancer immune responses and cytokine release. EBioMedicine, 2019, 42, 281-295.	6.1	94
34	Towards the first targeted therapy for triple-negative breast cancer: Repositioning of clofazimine as a chemotherapy-compatible selective Wnt pathway inhibitor. Cancer Letters, 2019, 449, 45-55.	7.2	44
35	A high-throughput assay pipeline for specific targeting of frizzled GPCRs in cancer. Methods in Cell Biology, 2019, 149, 57-75.	1.1	17
36	Chemo-Diversification of Plant Extracts Using a Generic Bromination Reaction and Monitoring by Metabolite Profiling. ACS Combinatorial Science, 2019, 21, 171-182.	3.8	8

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37	Targeting the Wnt signalling pathway in cancer: prospects and perils. Swiss Medical Weekly, 2019, 149, w20129.	1.6	26
38	High capacity in G protein-coupled receptor signaling. Nature Communications, 2018, 9, 876.	12.8	40
39	Antagonistic PCP Signaling Pathways in the developing Drosophila eye. Scientific Reports, 2018, 8, 5741.	3.3	4
40	Costunolide specifically binds and inhibits thioredoxin reductase 1 to induce apoptosis in colon cancer. Cancer Letters, 2018, 412, 46-58.	7.2	38
41	Medicinal mushrooms as an attractive new source of natural compounds for future cancer therapy. Oncotarget, 2018, 9, 29259-29274.	1.8	81
42	Dramatic dysbalancing of the Wnt pathway in breast cancers. Scientific Reports, 2018, 8, 7329.	3.3	60
43	Tannins from Syzygium guineense suppress Wnt signaling and proliferation of Wnt-dependent tumors through a direct effect on secreted Wnts. Cancer Letters, 2018, 435, 110-120.	7.2	35
44	Versatility of Turing patterns potentiates rapid evolution in tarsal attachment microstructures of stick and leaf insects (Phasmatodea). Journal of the Royal Society Interface, 2018, 15, 20180281.	3.4	25
45	GÎ±o (GNAO1) encephalopathies: plasma membrane vs. Golgi functions. Oncotarget, 2018, 9, 23846-23847.	1.8	13
46	Phosphorylation by <scp>NLK</scp> inhibits <scp>YAP</scp> â€14â€3â€3â€interactions and induces its nuclear localization. EMBO Reports, 2017, 18, 61-71.	4.5	139
47	Bioactive Natural Products Prioritization Using Massive Multi-informational Molecular Networks. ACS Chemical Biology, 2017, 12, 2644-2651.	3.4	112
48	High-throughput targeted screening in triple-negative breast cancer cells identifies Wnt-inhibiting activities in Pacific brittle stars. Scientific Reports, 2017, 7, 11964.	3.3	18
49	Golgi-Resident GÎ±o Promotes Protrusive Membrane Dynamics. Cell, 2017, 170, 939-955.e24.	28.9	62
50	Renal Fanconi Syndrome and Hypophosphatemic Rickets in the Absence of Xenotropic and Polytropic Retroviral Receptor in the Nephron. Journal of the American Society of Nephrology: JASN, 2017, 28, 1073-1078.	6.1	57
51	Cardamonin, a chalcone, inhibits human triple negative breast cancer cell invasiveness by downregulation of Wnt/Î²â€catenin signaling cascades and reversal of epithelialâ€“mesenchymal transition. BioFactors, 2017, 43, 152-169.	5.4	77
52	Arthropod Corneal Nanocoatings: Diversity, Mechanisms, and Functions. Biologically-inspired Systems, 2017, , 29-52.	0.2	7
53	Antireflective nanocoatings for UV-sensation: the case of predatory owlfly insects. Journal of Nanobiotechnology, 2017, 15, 52.	9.1	12
54	Alternative moth-eye nanostructures: antireflective properties and composition of dimpled corneal nanocoatings in silk-moth ancestors. Journal of Nanobiotechnology, 2017, 15, 61.	9.1	16

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55	A Second WNT for Old Drugs: Drug Repositioning against WNT-Dependent Cancers. Cancers, 2016, 8, 66.	3.7	52
56	Old friends are better to trust: Repositioning clofazimine and suramin against triple-negative breast cancer. Annals of Oncology, 2016, 27, vi534.	1.2	0
57	Inhibition of Wnt signalling and breast tumour growth by the multi-purpose drug suramin through suppression of heterotrimeric G proteins and Wnt endocytosis. Biochemical Journal, 2016, 473, 371-381.	3.7	32
58	USP2-45 Is a Circadian Clock Output Effector Regulating Calcium Absorption at the Post-Translational Level. PLoS ONE, 2016, 11, e0145155.	2.5	25
59	Mode of interaction of the GÎ±o subunit of heterotrimeric G proteins with the GoLoco1 motif of Drosophila Pins is determined by guanine nucleotides. Bioscience Reports, 2015, 35, .	2.4	3
60	Origin of order in bionanostructures. RSC Advances, 2015, 5, 63521-63527.	3.6	13
61	Reggie-1/Flotillin-2 regulates integrin trafficking and focal adhesion turnover via Rab11a. European Journal of Cell Biology, 2015, 94, 531-545.	3.6	23
62	Diverse set of Turing nanopatterns coat corneae across insect lineages. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10750-10755.	7.1	65
63	Identification of Novel Elements of the Drosophila Blisterome Sheds Light on Potential Pathological Mechanisms of Several Human Diseases. PLoS ONE, 2014, 9, e101133.	2.5	8
64	Heterotrimeric Go protein links Wnt-Frizzled signaling with ankyrins to regulate the neuronal microtubule cytoskeleton. Development (Cambridge), 2014, 141, 3399-3409.	2.5	34
65	Role of <scp>G</scp>_{o/i} subgroup of <scp>G</scp> proteins in olfactory signaling of <scp>D</scp>rosophila melanogaster. European Journal of Neuroscience, 2014, 39, 1245-1255.	2.6	33
66	Targeting the Wnt pathways for therapies. Molecular and Cellular Therapies, 2014, 2, 28.	0.2	115
67	Lack of evidence of the interaction of the AÎ² peptide with the Wnt signaling cascade in Drosophila models of Alzheimer's disease. Molecular Brain, 2014, 7, 81.	2.6	3
68	Double Suppression of the GÎ± Protein Activity by RGS Proteins. Molecular Cell, 2014, 53, 663-671.	9.7	40
69	Anti-leprosy drug clofazimine inhibits growth of triple-negative breast cancer cells via inhibition of canonical Wnt signaling. Biochemical Pharmacology, 2014, 87, 571-578.	4.4	57
70	The solâ€“gel synthesis of cotton/TiO2 composites and their antibacterial properties. Surface and Coatings Technology, 2014, 253, 171-179.	4.8	70
71	Under- and over-water halves of Gyrinidae beetle eyes harbor different corneal nanocoatings providing adaptation to the water and air environments. Scientific Reports, 2014, 4, 6004.	3.3	28
72	Lack of evidence of the interaction of the AÃŸ peptide with the Wnt signaling cascade in Drosophila models of AlzheimerÂ¿s disease. Molecular Brain, 2014, 7, 81.	2.6	6

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73	The downregulation of the Miniature gene does not replicate Miniature loss-of-function phenotypes in Drosophila melanogaster wing to the full extent. Cytology and Genetics, 2013, 47, 124-127.	0.5	0
74	Wnt Secretion and Gradient Formation. International Journal of Molecular Sciences, 2013, 14, 5130-5145.	4.1	25
75	Crystallization and preliminary X-ray diffraction studies ofDrosophila melanogasterGÎ±o-subunit of heterotrimeric G protein in complex with the RGS domain of CG5036. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 61-64.	0.7	3
76	Reggies/flotillins interact with Rab11a and SNX4 at the tubulovesicular recycling compartment and function in transferrin receptor and E-cadherin trafficking. Molecular Biology of the Cell, 2013, 24, 2689-2702.	2.1	74
77	Kermit Interacts with GÎ±o, Vang, and Motor Proteins in Drosophila Planar Cell Polarity. PLoS ONE, 2013, 8, e76885.	2.5	9
78	Dual functions of DP1 promote biphasic Wnt-on and Wnt-off states during anteroposterior neural patterning. EMBO Journal, 2012, 31, 3384-3397.	7.8	20
79	Platforms for high-throughput screening of Wnt/Frizzled antagonists. Drug Discovery Today, 2012, 17, 1316-1322.	6.4	28
80	Role of the gene Miniature in Drosophila wing maturation. Genesis, 2012, 50, 525-533.	1.6	8
81	Analysis of Micro- and Nano-Structures of the Corneal Surface of Drosophila and Its Mutants by Atomic Force Microscopy and Optical Diffraction. PLoS ONE, 2011, 6, e22237.	2.5	24
82	The eye of Drosophila as a model system for studying intracellular signaling in ontogenesis and pathogenesis. Biochemistry (Moscow), 2011, 76, 1556-1581.	1.5	9
83	Yellow submarine of the Wnt/Frizzled signaling: Submerging from the G protein harbor to the targets. Biochemical Pharmacology, 2011, 82, 1311-1319.	4.4	63
84	Technologies of directed protein evolution in vivo. Cellular and Molecular Life Sciences, 2011, 68, 1207-1214.	5.4	13
85	Wnt3a stimulation elicits G-protein-coupled receptor properties of mammalian Frizzled proteins. Biochemical Journal, 2011, 433, 435-440.	3.7	75
86	The trimeric G protein Go inflicts a double impact on axin in the Wnt/frizzled signaling pathway. Developmental Dynamics, 2010, 239, 168-183.	1.8	37
87	The trimeric G protein Go inflicts a double impact on axin in the Wnt/frizzled signaling pathway. Developmental Dynamics, 2010, 239, spcone.	1.8	43
88	Europium-labeled GTP as a general nonradioactive substitute for [35S]GTPÎ³S in high-throughput G protein studies. Analytical Biochemistry, 2010, 397, 202-207.	2.4	27
89	The Wnt/Frizzled GPCR signaling pathway. Biochemistry (Moscow), 2010, 75, 1428-1434.	1.5	23
90	Competing Activities of Heterotrimeric G Proteins in Drosophila Wing Maturation. PLoS ONE, 2010, 5, e12331.	2.5	30

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91	A Direct and Functional Interaction Between G _o and Rab5 During G Proteinâ€“Coupled Receptor Signaling. Science Signaling, 2010, 3, ra65.	3.6	50
92	DrosophilaGoLoco-Protein Pins Is a Target of GÎ±_o-mediated G Proteinâ€“coupled Receptor Signaling. Molecular Biology of the Cell, 2009, 20, 3865-3877.	2.1	38
93	Reggie-1/flotillin-2 promotes secretion of the long-range signalling forms of Wingless and Hedgehog in Drosophila. EMBO Journal, 2008, 27, 509-521.	7.8	100
94	Trimeric G protein-dependent signaling by Frizzled receptors in animal development. Frontiers in Bioscience - Landmark, 2008, Volume, 4740.	3.0	44
95	Kinetic diversity in G-protein-coupled receptor signalling. Biochemical Journal, 2007, 401, 485-495.	3.7	31
96	Multiple Roles of a Trimeric G Protein in Drosophila Cell Polarization. Cell Cycle, 2006, 5, 2464-2472.	2.6	19
97	Dual roles for the trimeric G protein Go in asymmetric cell division in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6524-6529.	7.1	48
98	Trimeric G Protein-Dependent Frizzled Signaling in Drosophila. Cell, 2005, 120, 111-122.	28.9	256
99	Creation of nanostructures to study the topographical dependency of protein adsorption. Colloids and Surfaces B: Biointerfaces, 2002, 26, 255-267.	5.0	81
100	Protein adsorption on topographically nanostructured titanium. Surface Science, 2001, 474, L180-L184.	1.9	62
101	Signal transduction in neutrophil chemotaxis. , 2001, 66, 351-368.		46
102	Central Role for G Protein-Coupled Phosphoinositide 3-Kinase Î³ in Inflammation. Science, 2000, 287, 1049-1053.	12.6	1,187
103	Phosphoinositide 3-kinase signalling: no lipids. Biochemical Society Transactions, 1999, 27, 629-634.	3.4	3
104	Microquantification of Cellular andin VitroF-Actin by Rhodamine Phalloidin Fluorescence Enhancement. Analytical Biochemistry, 1998, 264, 185-190.	2.4	19
105	Formation of bacteriophage MS2 infectious units in a cell-free translation system. FEBS Letters, 1996, 397, 143-148.	2.8	5
106	Viral QÎ² RNA as a high expression vector for mRNA translation in a cell-free system. FEBS Letters, 1995, 359, 89-92.	2.8	3
107	Frizzled Proteins are bona fide G Protein-Coupled Receptors. Nature Precedings, 0, , .	0.1	21