

Vladimir L Katanaev

List of Publications by Year in descending order

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107
papers

4,551
citations

136740

32
h-index

114278

63
g-index

114
all docs

114
docs citations

114
times ranked

5977
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. <i>Acta Neuropathologica Communications</i> , 2022, 10, 9.	2.4	16
2	Chlorin Endogenous to the North Pacific Brittle Star <i>Ophiura sarsii</i> for Photodynamic Therapy Applications in Breast Cancer and Glioblastoma Models. <i>Biomedicines</i> , 2022, 10, 134.	1.4	3
3	G β 12-induced conductin/axin2 condensates inhibit Wnt/ β 2-catenin signaling and suppress cancer growth. <i>Nature Communications</i> , 2022, 13, 674.	5.8	15
4	Unlocking the Wnt pathway: Therapeutic potential of selective targeting FZD7 in cancer. <i>Drug Discovery Today</i> , 2022, 27, 777-792.	3.2	13
5	Local and substrate-specific S-palmitoylation determines subcellular localization of G β 0. <i>Nature Communications</i> , 2022, 13, 2072.	5.8	19
6	Chemoenzymatic Synthesis of Original Stilbene Dimers Possessing Wnt Inhibition Activity in Triple-Negative Breast Cancer Cells Using the Enzymatic Secretome of <i>Botrytis cinerea</i> Pers.. <i>Frontiers in Chemistry</i> , 2022, 10, 881298.	1.8	7
7	Bactericidal and Antiviral Bionic Metalized Nanocoatings. <i>Nanomaterials</i> , 2022, 12, 1868.	1.9	5
8	Light Polarization by Biological Nanocoatings. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23481-23488.	4.0	2
9	Macropinocytosis requires Gal-3 in a subset of patient-derived glioblastoma stem cells. <i>Communications Biology</i> , 2021, 4, 718.	2.0	14
10	Knockdown of Dehydrodolichyl Diphosphate Synthase in the <i>Drosophila</i> Retina Leads to a Unique Pattern of Retinal Degeneration. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 693967.	1.4	5
11	Short stature and combined immunodeficiency associated with mutations in RGS10. <i>Science Signaling</i> , 2021, 14, .	1.6	2
12	Isolation and Identification of Isocoumarin Derivatives With Specific Inhibitory Activity Against Wnt Pathway and Metabolome Characterization of <i>Lasiodiplodia venezuelensis</i> . <i>Frontiers in Chemistry</i> , 2021, 9, 664489.	1.8	5
13	Embedding similarities between embryos and circulating tumor cells: fundamentals of abortifacients used for cancer metastasis chemoprevention. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 300.	3.5	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 in <i>Ávitro</i> and in <i>Ávivo</i> . <i>European Journal of Medicinal Chemistry</i> , 2021, 222, 113562.	2.6	9
15	NOL7 facilitates melanoma progression and metastasis. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 352.	7.1	5
16	Pediatric Encephalopathy: Clinical, Biochemical and Cellular Insights into the Role of Gln52 of GNAO1 and GNAI1 for the Dominant Disease. <i>Cells</i> , 2021, 10, 2749.	1.8	16
17	A Cytotoxic Porphyrin from North Pacific Brittle Star <i>Ophiura sarsii</i> . <i>Marine Drugs</i> , 2021, 19, 11.	2.2	7
18	Mining Natural Compounds to Target WNT Signaling: Land and Sea Tales. <i>Handbook of Experimental Pharmacology</i> , 2021, 269, 215-248.	0.9	6

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19	Chemoenzymatic Synthesis of Complex Phenylpropanoid Derivatives by the <i>Botrytis cinerea</i> Secretome and Evaluation of Their Wnt Inhibition Activity. <i>Frontiers in Plant Science</i> , 2021, 12, 805610.	1.7	5
20	WDR74 induces nuclear β -catenin accumulation and activates Wnt-responsive genes to promote lung cancer growth and metastasis. <i>Cancer Letters</i> , 2020, 471, 103-115.	3.2	24
21	Generation of Stilbene Antimicrobials against Multiresistant Strains of <i>Staphylococcus aureus</i> through Biotransformation by the Enzymatic Secretome of <i>Botrytis cinerea</i> . <i>Journal of Natural Products</i> , 2020, 83, 2347-2356.	1.5	13
22	The Signaling Duo CXCL12 and CXCR4: Chemokine Fuel for Breast Cancer Tumorigenesis. <i>Cancers</i> , 2020, 12, 3071.	1.7	43
23	Reverse and forward engineering of <i>Drosophila</i> corneal nanocoatings. <i>Nature</i> , 2020, 585, 383-389.	13.7	31
24	Beyond TNBC: Repositioning of Clofazimine Against a Broad Range of Wnt-Dependent Cancers. <i>Frontiers in Oncology</i> , 2020, 10, 602817.	1.3	16
25	HumanaFly: high-throughput transgenesis and expression of breast cancer transcripts in <i>Drosophila</i> eye discovers the RPS12-Wingless signaling axis. <i>Scientific Reports</i> , 2020, 10, 21013.	1.6	7
26	Humanization of <i>Drosophila</i> $\text{G}\alpha$ to Model GNAO1 Paediatric Encephalopathies. <i>Biomedicines</i> , 2020, 8, 395.	1.4	14
27	Small Molecule Wnt Pathway Modulators from Natural Sources: History, State of the Art and Perspectives. <i>Cells</i> , 2020, 9, 589.	1.8	23
28	One nanometer self-assembled aptamer-DNA dendrimers carry 350 doxorubicin: Super-stability and intra-nuclear DNA comet tail. <i>Chemical Engineering Journal</i> , 2020, 388, 124170.	6.6	10
29	WDR74 modulates melanoma tumorigenesis and metastasis through the RPL5-MDM2-p53 pathway. <i>Oncogene</i> , 2020, 39, 2741-2755.	2.6	17
30	LDL receptor-related protein LRP6 senses nutrient levels and regulates Hippo signaling. <i>EMBO Reports</i> , 2020, 21, e50103.	2.0	11
31	The Anticancer Drug Discovery Potential of Marine Invertebrates from Russian Pacific. <i>Marine Drugs</i> , 2019, 17, 474.	2.2	16
32	Information Theory: New Look at Oncogenic Signaling Pathways. <i>Trends in Cell Biology</i> , 2019, 29, 862-875.	3.6	30
33	Simultaneous blocking of CD47 and PD-L1 increases innate and adaptive cancer immune responses and cytokine release. <i>EBioMedicine</i> , 2019, 42, 281-295.	2.7	94
34	Towards the first targeted therapy for triple-negative breast cancer: Repositioning of clofazimine as a chemotherapy-compatible selective Wnt pathway inhibitor. <i>Cancer Letters</i> , 2019, 449, 45-55.	3.2	44
35	A high-throughput assay pipeline for specific targeting of frizzled GPCRs in cancer. <i>Methods in Cell Biology</i> , 2019, 149, 57-75.	0.5	17
36	Chemo-Diversification of Plant Extracts Using a Generic Bromination Reaction and Monitoring by Metabolite Profiling. <i>ACS Combinatorial Science</i> , 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.	0.8	26
38	High capacity in G protein-coupled receptor signaling. Nature Communications, 2018, 9, 876.	5.8	40
39	Antagonistic PCP Signaling Pathways in the developing Drosophila eye. Scientific Reports, 2018, 8, 5741.	1.6	4
40	Costunolide specifically binds and inhibits thioredoxin reductase 1 to induce apoptosis in colon cancer. Cancer Letters, 2018, 412, 46-58.	3.2	38
41	Medicinal mushrooms as an attractive new source of natural compounds for future cancer therapy. Oncotarget, 2018, 9, 29259-29274.	0.8	81
42	Dramatic dysbalancing of the Wnt pathway in breast cancers. Scientific Reports, 2018, 8, 7329.	1.6	60
43	Tannins from <i>Syzygium guineense</i> suppress Wnt signaling and proliferation of Wnt-dependent tumors through a direct effect on secreted Wnts. Cancer Letters, 2018, 435, 110-120.	3.2	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.	1.5	25
45	$\text{G}\beta\text{o}$ (<i>GNAO1</i>) encephalopathies: plasma membrane <i>vs</i> Golgi functions. Oncotarget, 2018, 9, 23846-23847.	0.8	13
46	Phosphorylation by <i>NLK</i> inhibits <i>YAP</i> interactions and induces its nuclear localization. EMBO Reports, 2017, 18, 61-71.	2.0	139
47	Bioactive Natural Products Prioritization Using Massive Multi-informational Molecular Networks. ACS Chemical Biology, 2017, 12, 2644-2651.	1.6	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.	1.6	18
49	Golgi-Resident $\text{G}\beta\text{o}$ Promotes Protrusive Membrane Dynamics. Cell, 2017, 170, 939-955.e24.	13.5	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.	3.0	57
51	Cardamonin, a chalcone, inhibits human triple negative breast cancer cell invasiveness by downregulation of Wnt/ β -catenin signaling cascades and reversal of epithelial to mesenchymal transition. BioFactors, 2017, 43, 152-169.	2.6	77
52	Arthropod Corneal Nanocoatings: Diversity, Mechanisms, and Functions. Biologically-inspired Systems, 2017, , 29-52.	0.4	7
53	Antireflective nanocoatings for UV-sensation: the case of predatory owlfly insects. Journal of Nanobiotechnology, 2017, 15, 52.	4.2	12
54	Alternative moth-eye nanostructures: antireflective properties and composition of dimpled corneal nanocoatings in silk-moth ancestors. Journal of Nanobiotechnology, 2017, 15, 61.	4.2	16

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55	A Second WNT for Old Drugs: Drug Repositioning against WNT-Dependent Cancers. <i>Cancers</i> , 2016, 8, 66.	1.7	52
56	Old friends are better to trust: Repositioning clofazimine and suramin against triple-negative breast cancer. <i>Annals of Oncology</i> , 2016, 27, vi534.	0.6	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. <i>Biochemical Journal</i> , 2016, 473, 371-381.	1.7	32
58	USP2-45 Is a Circadian Clock Output Effector Regulating Calcium Absorption at the Post-Translational Level. <i>PLoS ONE</i> , 2016, 11, e0145155.	1.1	25
59	Mode of interaction of the G α subunit of heterotrimeric G proteins with the GoLoco1 motif of <i>Drosophila</i> Pins is determined by guanine nucleotides. <i>Bioscience Reports</i> , 2015, 35, .	1.1	3
60	Origin of order in bionanostructures. <i>RSC Advances</i> , 2015, 5, 63521-63527.	1.7	13
61	Reggie-1/Flotillin-2 regulates integrin trafficking and focal adhesion turnover via Rab11a. <i>European Journal of Cell Biology</i> , 2015, 94, 531-545.	1.6	23
62	Diverse set of Turing nanopatterns coat cornea across insect lineages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10750-10755.	3.3	65
63	Identification of Novel Elements of the <i>Drosophila</i> Blisterome Sheds Light on Potential Pathological Mechanisms of Several Human Diseases. <i>PLoS ONE</i> , 2014, 9, e101133.	1.1	8
64	Heterotrimeric Go protein links Wnt-Frizzled signaling with ankyrins to regulate the neuronal microtubule cytoskeleton. <i>Development (Cambridge)</i> , 2014, 141, 3399-3409.	1.2	34
65	Role of G α subgroup of G proteins in olfactory signaling of <i>Drosophila melanogaster</i> . <i>European Journal of Neuroscience</i> , 2014, 39, 1245-1255.	1.2	33
66	Targeting the Wnt pathways for therapies. <i>Molecular and Cellular Therapies</i> , 2014, 2, 28.	0.2	115
67	Lack of evidence of the interaction of the A β peptide with the Wnt signaling cascade in <i>Drosophila</i> models of Alzheimer's disease. <i>Molecular Brain</i> , 2014, 7, 81.	1.3	3
68	Double Suppression of the G α Protein Activity by RGS Proteins. <i>Molecular Cell</i> , 2014, 53, 663-671.	4.5	40
69	Anti-leprosy drug clofazimine inhibits growth of triple-negative breast cancer cells via inhibition of canonical Wnt signaling. <i>Biochemical Pharmacology</i> , 2014, 87, 571-578.	2.0	57
70	The sol-gel synthesis of cotton/TiO ₂ composites and their antibacterial properties. <i>Surface and Coatings Technology</i> , 2014, 253, 171-179.	2.2	70
71	Under- and over-water halves of Gyrinidae beetle eyes harbor different corneal nanocoatings providing adaptation to the water and air environments. <i>Scientific Reports</i> , 2014, 4, 6004.	1.6	28
72	Lack of evidence of the interaction of the A β peptide with the Wnt signaling cascade in <i>Drosophila</i> models of Alzheimer's disease. <i>Molecular Brain</i> , 2014, 7, 81.	1.3	6

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73	The downregulation of the Miniature gene does not replicate Miniature loss-of-function phenotypes in <i>Drosophila melanogaster</i> wing to the full extent. <i>Cytology and Genetics</i> , 2013, 47, 124-127.	0.2	0
74	Wnt Secretion and Gradient Formation. <i>International Journal of Molecular Sciences</i> , 2013, 14, 5130-5145.	1.8	25
75	Crystallization and preliminary X-ray diffraction studies of <i>Drosophila melanogaster</i> G α -subunit of heterotrimeric G protein in complex with the RGS domain of CG5036. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 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. <i>Molecular Biology of the Cell</i> , 2013, 24, 2689-2702.	0.9	74
77	Kermit Interacts with G α , Vang, and Motor Proteins in <i>Drosophila</i> Planar Cell Polarity. <i>PLoS ONE</i> , 2013, 8, e76885.	1.1	9
78	Dual functions of DP1 promote biphasic Wnt-on and Wnt-off states during anteroposterior neural patterning. <i>EMBO Journal</i> , 2012, 31, 3384-3397.	3.5	20
79	Platforms for high-throughput screening of Wnt/Frizzled antagonists. <i>Drug Discovery Today</i> , 2012, 17, 1316-1322.	3.2	28
80	Role of the gene <i>Miniature</i> in <i>Drosophila</i> wing maturation. <i>Genesis</i> , 2012, 50, 525-533.	0.8	8
81	Analysis of Micro- and Nano-Structures of the Corneal Surface of <i>Drosophila</i> and Its Mutants by Atomic Force Microscopy and Optical Diffraction. <i>PLoS ONE</i> , 2011, 6, e22237.	1.1	24
82	The eye of <i>Drosophila</i> as a model system for studying intracellular signaling in ontogenesis and pathogenesis. <i>Biochemistry (Moscow)</i> , 2011, 76, 1556-1581.	0.7	9
83	Yellow submarine of the Wnt/Frizzled signaling: Submerging from the G protein harbor to the targets. <i>Biochemical Pharmacology</i> , 2011, 82, 1311-1319.	2.0	63
84	Technologies of directed protein evolution in vivo. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 1207-1214.	2.4	13
85	Wnt3a stimulation elicits G-protein-coupled receptor properties of mammalian Frizzled proteins. <i>Biochemical Journal</i> , 2011, 433, 435-440.	1.7	75
86	The trimeric G protein G α inflicts a double impact on axin in the Wnt/frizzled signaling pathway. <i>Developmental Dynamics</i> , 2010, 239, 168-183.	0.8	37
87	The trimeric G protein G α inflicts a double impact on axin in the Wnt/frizzled signaling pathway. <i>Developmental Dynamics</i> , 2010, 239, spcone.	0.8	43
88	Europium-labeled GTP as a general nonradioactive substitute for [35S]GTP γ S in high-throughput G protein studies. <i>Analytical Biochemistry</i> , 2010, 397, 202-207.	1.1	27
89	The Wnt/Frizzled GPCR signaling pathway. <i>Biochemistry (Moscow)</i> , 2010, 75, 1428-1434.	0.7	23
90	Competing Activities of Heterotrimeric G Proteins in <i>Drosophila</i> Wing Maturation. <i>PLoS ONE</i> , 2010, 5, e12331.	1.1	30

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91	A Direct and Functional Interaction Between G _o and Rab5 During G Protein-Coupled Receptor Signaling. <i>Science Signaling</i> , 2010, 3, ra65.	1.6	50
92	<i>Drosophila</i> GoLoco-Protein Pins Is a Target of G ₁₂ -mediated G Protein-coupled Receptor Signaling. <i>Molecular Biology of the Cell</i> , 2009, 20, 3865-3877.	0.9	38
93	Reggie-1/flotillin-2 promotes secretion of the long-range signalling forms of Wingless and Hedgehog in <i>Drosophila</i> . <i>EMBO Journal</i> , 2008, 27, 509-521.	3.5	100
94	Trimeric G protein-dependent signaling by Frizzled receptors in animal development. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 4740.	3.0	44
95	Kinetic diversity in G-protein-coupled receptor signalling. <i>Biochemical Journal</i> , 2007, 401, 485-495.	1.7	31
96	Multiple Roles of a Trimeric G Protein in <i>Drosophila</i> Cell Polarization. <i>Cell Cycle</i> , 2006, 5, 2464-2472.	1.3	19
97	Dual roles for the trimeric G protein Go in asymmetric cell division in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6524-6529.	3.3	48
98	Trimeric G Protein-Dependent Frizzled Signaling in <i>Drosophila</i> . <i>Cell</i> , 2005, 120, 111-122.	13.5	256
99	Creation of nanostructures to study the topographical dependency of protein adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 26, 255-267.	2.5	81
100	Protein adsorption on topographically nanostructured titanium. <i>Surface Science</i> , 2001, 474, L180-L184.	0.8	62
101	Signal transduction in neutrophil chemotaxis. , 2001, 66, 351-368.		46
102	Central Role for G Protein-Coupled Phosphoinositide 3-Kinase in Inflammation. <i>Science</i> , 2000, 287, 1049-1053.	6.0	1,187
103	Phosphoinositide 3-kinase signalling: no lipids. <i>Biochemical Society Transactions</i> , 1999, 27, 629-634.	1.6	3
104	Microquantification of Cellular and in Vitro F-Actin by Rhodamine Phalloidin Fluorescence Enhancement. <i>Analytical Biochemistry</i> , 1998, 264, 185-190.	1.1	19
105	Formation of bacteriophage MS2 infectious units in a cell-free translation system. <i>FEBS Letters</i> , 1996, 397, 143-148.	1.3	5
106	Viral Q β RNA as a high expression vector for mRNA translation in a cell-free system. <i>FEBS Letters</i> , 1995, 359, 89-92.	1.3	3
107	Frizzled Proteins are bona fide G Protein-Coupled Receptors. <i>Nature Precedings</i> , 0, , .	0.1	21