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	Central Role for G Protein-Coupled Phosphoinositide 3-Kinase Î³ in Inflammation. Science, 2000, 287, 1049-1053.	12.6	1,187
2	Trimeric G Protein-Dependent Frizzled Signaling in Drosophila. Cell, 2005, 120, 111-122.	28.9	256
3	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
4	Targeting the Wnt pathways for therapies. Molecular and Cellular Therapies, 2014, 2, 28.	0.2	115
5	Bioactive Natural Products Prioritization Using Massive Multi-informational Molecular Networks. ACS Chemical Biology, 2017, 12, 2644-2651.	3.4	112
6	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
7	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
8	Creation of nanostructures to study the topographical dependency of protein adsorption. Colloids and Surfaces B: Biointerfaces, 2002, 26, 255-267.	5.0	81
9	Medicinal mushrooms as an attractive new source of natural compounds for future cancer therapy. Oncotarget, 2018, 9, 29259-29274.	1.8	81
10	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
11	Wnt3a stimulation elicits G-protein-coupled receptor properties of mammalian Frizzled proteins. Biochemical Journal, 2011, 433, 435-440.	3.7	75
12	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
13	The solâ€“gel synthesis of cotton/TiO2 composites and their antibacterial properties. Surface and Coatings Technology, 2014, 253, 171-179.	4.8	70
14	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
15	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
16	Protein adsorption on topographically nanostructured titanium. Surface Science, 2001, 474, L180-L184.	1.9	62
17	Golgi-Resident GÎ±o Promotes Protrusive Membrane Dynamics. Cell, 2017, 170, 939-955.e24.	28.9	62
18	Dramatic dysbalancing of the Wnt pathway in breast cancers. Scientific Reports, 2018, 8, 7329.	3.3	60

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19	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
20	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
21	A Second WNT for Old Drugs: Drug Repositioning against WNT-Dependent Cancers. Cancers, 2016, 8, 66.	3.7	52
22	A Direct and Functional Interaction Between G _o and Rab5 During G Proteinâ€“Coupled Receptor Signaling. Science Signaling, 2010, 3, ra65.	3.6	50
23	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
24	Signal transduction in neutrophil chemotaxis. , 2001, 66, 351-368.		46
25	Trimeric G protein-dependent signaling by Frizzled receptors in animal development. Frontiers in Bioscience - Landmark, 2008, Volume, 4740.	3.0	44
26	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
27	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
28	The Signaling Duo CXCL12 and CXCR4: Chemokine Fuel for Breast Cancer Tumorigenesis. Cancers, 2020, 12, 3071.	3.7	43
29	Double Suppression of the GÎ± Protein Activity by RGS Proteins. Molecular Cell, 2014, 53, 663-671.	9.7	40
30	High capacity in G protein-coupled receptor signaling. Nature Communications, 2018, 9, 876.	12.8	40
31	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
32	Costunolide specifically binds and inhibits thioredoxin reductase 1 to induce apoptosis in colon cancer. Cancer Letters, 2018, 412, 46-58.	7.2	38
33	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
34	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
35	Heterotrimeric Go protein links Wnt-Frizzled signaling with ankyrins to regulate the neuronal microtubule cytoskeleton. Development (Cambridge), 2014, 141, 3399-3409.	2.5	34
36	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

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37	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
38	Kinetic diversity in G-protein-coupled receptor signalling. Biochemical Journal, 2007, 401, 485-495.	3.7	31
39	Reverse and forward engineering of Drosophila corneal nanocoatings. Nature, 2020, 585, 383-389.	27.8	31
40	Competing Activities of Heterotrimeric G Proteins in Drosophila Wing Maturation. PLoS ONE, 2010, 5, e12331.	2.5	30
41	Information Theory: New Look at Oncogenic Signaling Pathways. Trends in Cell Biology, 2019, 29, 862-875.	7.9	30
42	Platforms for high-throughput screening of Wnt/Frizzled antagonists. Drug Discovery Today, 2012, 17, 1316-1322.	6.4	28
43	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
44	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
45	Targeting the Wnt signalling pathway in cancer: prospects and perils. Swiss Medical Weekly, 2019, 149, w20129.	1.6	26
46	Wnt Secretion and Gradient Formation. International Journal of Molecular Sciences, 2013, 14, 5130-5145.	4.1	25
47	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
48	USP2-45 Is a Circadian Clock Output Effector Regulating Calcium Absorption at the Post-Translational Level. PLoS ONE, 2016, 11, e0145155.	2.5	25
49	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
50	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
51	The Wnt/Frizzled GPCR signaling pathway. Biochemistry (Moscow), 2010, 75, 1428-1434.	1.5	23
52	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
53	Small Molecule Wnt Pathway Modulators from Natural Sources: History, State of the Art and Perspectives. Cells, 2020, 9, 589.	4.1	23
54	Frizzled Proteins are bona fide G Protein-Coupled Receptors. Nature Precedings, 0, , .	0.1	21

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55	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
56	Microquantification of Cellular andin VitroF-Actin by Rhodamine Phalloidin Fluorescence Enhancement. Analytical Biochemistry, 1998, 264, 185-190.	2.4	19
57	Multiple Roles of a Trimeric G Protein in Drosophila Cell Polarization. Cell Cycle, 2006, 5, 2464-2472.	2.6	19
58	Local and substrate-specific S-palmitoylation determines subcellular localization of GÎ±o. Nature Communications, 2022, 13, 2072.	12.8	19
59	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
60	A high-throughput assay pipeline for specific targeting of frizzled GPCRs in cancer. Methods in Cell Biology, 2019, 149, 57-75.	1.1	17
61	WDR74 modulates melanoma tumorigenesis and metastasis through the RPL5â€“MDM2â€“p53 pathway. Oncogene, 2020, 39, 2741-2755.	5.9	17
62	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
63	The Anticancer Drug Discovery Potential of Marine Invertebrates from Russian Pacific. Marine Drugs, 2019, 17, 474.	4.6	16
64	Beyond TNBC: Repositioning of Clofazimine Against a Broad Range of Wnt-Dependent Cancers. Frontiers in Oncology, 2020, 10, 602817.	2.8	16
65	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
66	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
67	GÎ±i2-induced conductin/axin2 condensates inhibit Wnt/Î²-catenin signaling and suppress cancer growth. Nature Communications, 2022, 13, 674.	12.8	15
68	Humanization of Drosophila GÎ±o to Model GNAO1 Paediatric Encephalopathies. Biomedicines, 2020, 8, 395.	3.2	14
69	Macropinocytosis requires Gal-3 in a subset of patient-derived glioblastoma stem cells. Communications Biology, 2021, 4, 718.	4.4	14
70	Technologies of directed protein evolution in vivo. Cellular and Molecular Life Sciences, 2011, 68, 1207-1214.	5.4	13
71	Origin of order in bionanostructures. RSC Advances, 2015, 5, 63521-63527.	3.6	13
72	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

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73	Gî±o (GNAO1) encephalopathies: plasma membrane vs. Golgi functions. Oncotarget, 2018, 9, 23846-23847.	1.8	13
74	Unlocking the Wnt pathway: Therapeutic potential of selective targeting FZD7 in cancer. Drug Discovery Today, 2022, 27, 777-792.	6.4	13
75	Antireflective nanocoatings for UV-sensation: the case of predatory owlfly insects. Journal of Nanobiotechnology, 2017, 15, 52.	9.1	12
76	<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
77	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
78	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
79	Kermit Interacts with Gî±o, Vang, and Motor Proteins in Drosophila Planar Cell Polarity. PLoS ONE, 2013, 8, e76885.	2.5	9
80	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
81	Role of the gene Miniature in Drosophila wing maturation. Genesis, 2012, 50, 525-533.	1.6	8
82	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
83	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
84	Arthropod Corneal Nanocoatings: Diversity, Mechanisms, and Functions. Biologically-inspired Systems, 2017, , 29-52.	0.2	7
85	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
86	A Cytotoxic Porphyrin from North Pacific Brittle Star Ophiura sarsii. Marine Drugs, 2021, 19, 11.	4.6	7
87	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
88	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
89	Mining Natural Compounds to Target WNT Signaling: Land and Sea Tales. Handbook of Experimental Pharmacology, 2021, 269, 215-248.	1.8	6
90	Formation of bacteriophage MS2 infectious units in a cell-free translation system. FEBS Letters, 1996, 397, 143-148.	2.8	5

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91	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
92	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
93	NOL7 facilitates melanoma progression and metastasis. Signal Transduction and Targeted Therapy, 2021, 6, 352.	17.1	5
94	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
95	Bactericidal and Antiviral Bionic Metalized Nanocoatings. Nanomaterials, 2022, 12, 1868.	4.1	5
96	Antagonistic PCP Signaling Pathways in the developing Drosophila eye. Scientific Reports, 2018, 8, 5741.	3.3	4
97	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
98	Phosphoinositide 3-kinase signalling: no lipids. Biochemical Society Transactions, 1999, 27, 629-634.	3.4	3
99	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
100	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
101	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
102	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
103	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
104	Light Polarization by Biological Nanocoatings. ACS Applied Materials & Interfaces, 2021, 13, 23481-23488.	8.0	2
105	Short stature and combined immunodeficiency associated with mutations in RGS10. Science Signaling, 2021, 14, .	3.6	2
106	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
107	Old friends are better to trust: Repositioning clofazimine and suramin against triple-negative breast cancer. Annals of Oncology, 2016, 27, vi534.	1.2	0