

# 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	Central Role for G Protein-Coupled Phosphoinositide 3-Kinase in Inflammation. <i>Science</i> , 2000, 287, 1049-1053.	6.0	1,187
2	Trimeric G Protein-Dependent Frizzled Signaling in <i>Drosophila</i> . <i>Cell</i> , 2005, 120, 111-122.	13.5	256
3	Phosphorylation by <i>NLK</i> inhibits <i>YAP</i> interactions and induces its nuclear localization. <i>EMBO Reports</i> , 2017, 18, 61-71.	2.0	139
4	Targeting the Wnt pathways for therapies. <i>Molecular and Cellular Therapies</i> , 2014, 2, 28.	0.2	115
5	Bioactive Natural Products Prioritization Using Massive Multi-informational Molecular Networks. <i>ACS Chemical Biology</i> , 2017, 12, 2644-2651.	1.6	112
6	<i>Reggie-1/flotillin-2</i> promotes secretion of the long-range signalling forms of <i>Wingless</i> and <i>Hedgehog</i> in <i>Drosophila</i> . <i>EMBO Journal</i> , 2008, 27, 509-521.	3.5	100
7	Simultaneous blocking of <i>CD47</i> and <i>PD-L1</i> increases innate and adaptive cancer immune responses and cytokine release. <i>EBioMedicine</i> , 2019, 42, 281-295.	2.7	94
8	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
9	Medicinal mushrooms as an attractive new source of natural compounds for future cancer therapy. <i>Oncotarget</i> , 2018, 9, 29259-29274.	0.8	81
10	<i>Cardamonin</i> , a chalcone, inhibits human triple negative breast cancer cell invasiveness by downregulation of <i>Wnt/β-catenin</i> signaling cascades and reversal of epithelial-mesenchymal transition. <i>BioFactors</i> , 2017, 43, 152-169.	2.6	77
11	<i>Wnt3a</i> stimulation elicits G-protein-coupled receptor properties of mammalian <i>Frizzled</i> proteins. <i>Biochemical Journal</i> , 2011, 433, 435-440.	1.7	75
12	<i>Reggies/flotillins</i> interact with <i>Rab11a</i> and <i>SNX4</i> at the tubulovesicular recycling compartment and function in transferrin receptor and <i>E-cadherin</i> trafficking. <i>Molecular Biology of the Cell</i> , 2013, 24, 2689-2702.	0.9	74
13	The sol-gel synthesis of cotton/TiO <sub>2</sub> composites and their antibacterial properties. <i>Surface and Coatings Technology</i> , 2014, 253, 171-179.	2.2	70
14	Diverse set of Turing nanopatterns coat corneae 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
15	Yellow submarine of the <i>Wnt/Frizzled</i> signaling: Submerging from the G protein harbor to the targets. <i>Biochemical Pharmacology</i> , 2011, 82, 1311-1319.	2.0	63
16	Protein adsorption on topographically nanostructured titanium. <i>Surface Science</i> , 2001, 474, L180-L184.	0.8	62
17	<i>Golgi-Resident Cl<sup>-</sup></i> Promotes Protrusive Membrane Dynamics. <i>Cell</i> , 2017, 170, 939-955.e24.	13.5	62
18	Dramatic dysbalancing of the <i>Wnt</i> pathway in breast cancers. <i>Scientific Reports</i> , 2018, 8, 7329.	1.6	60

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19	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
20	Renal Fanconi Syndrome and Hypophosphatemic Rickets in the Absence of Xenotropic and Polytropic Retroviral Receptor in the Nephron. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 1073-1078.	3.0	57
21	A Second WNT for Old Drugs: Drug Repositioning against WNT-Dependent Cancers. <i>Cancers</i> , 2016, 8, 66.	1.7	52
22	A Direct and Functional Interaction Between G <sub>o</sub> and Rab5 During G Proteinâ€‘Coupled Receptor Signaling. <i>Science Signaling</i> , 2010, 3, ra65.	1.6	50
23	Dual roles for the trimeric G protein G <sub>o</sub> 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
24	Signal transduction in neutrophil chemotaxis. , 2001, 66, 351-368.		46
25	Trimeric G protein-dependent signaling by Frizzled receptors in animal development. <i>Frontiers in Bioscience - Landmark</i> , 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. <i>Cancer Letters</i> , 2019, 449, 45-55.	3.2	44
27	The trimeric G protein G <sub>o</sub> inflicts a double impact on axin in the Wnt/frizzled signaling pathway. <i>Developmental Dynamics</i> , 2010, 239, spcone.	0.8	43
28	The Signaling Duo CXCL12 and CXCR4: Chemokine Fuel for Breast Cancer Tumorigenesis. <i>Cancers</i> , 2020, 12, 3071.	1.7	43
29	Double Suppression of the G <sub>i</sub> ± Protein Activity by RGS Proteins. <i>Molecular Cell</i> , 2014, 53, 663-671.	4.5	40
30	High capacity in G protein-coupled receptor signaling. <i>Nature Communications</i> , 2018, 9, 876.	5.8	40
31	<i>Drosophila</i> GoLoco-Protein Pins Is a Target of G <sub>i</sub> ±-mediated G Proteinâ€‘coupled Receptor Signaling. <i>Molecular Biology of the Cell</i> , 2009, 20, 3865-3877.	0.9	38
32	Costunolide specifically binds and inhibits thioredoxin reductase 1 to induce apoptosis in colon cancer. <i>Cancer Letters</i> , 2018, 412, 46-58.	3.2	38
33	The trimeric G protein G <sub>o</sub> inflicts a double impact on axin in the Wnt/frizzled signaling pathway. <i>Developmental Dynamics</i> , 2010, 239, 168-183.	0.8	37
34	Tannins from <i>Syzygium guineense</i> suppress Wnt signaling and proliferation of Wnt-dependent tumors through a direct effect on secreted Wnts. <i>Cancer Letters</i> , 2018, 435, 110-120.	3.2	35
35	Heterotrimeric G <sub>o</sub> protein links Wnt-Frizzled signaling with ankyrins to regulate the neuronal microtubule cytoskeleton. <i>Development (Cambridge)</i> , 2014, 141, 3399-3409.	1.2	34
36	Role of G <sub>o</sub> 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

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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. <i>Biochemical Journal</i> , 2016, 473, 371-381.	1.7	32
38	Kinetic diversity in G-protein-coupled receptor signalling. <i>Biochemical Journal</i> , 2007, 401, 485-495.	1.7	31
39	Reverse and forward engineering of <i>Drosophila</i> corneal nanocoatings. <i>Nature</i> , 2020, 585, 383-389.	13.7	31
40	Competing Activities of Heterotrimeric G Proteins in <i>Drosophila</i> Wing Maturation. <i>PLoS ONE</i> , 2010, 5, e12331.	1.1	30
41	Information Theory: New Look at Oncogenic Signaling Pathways. <i>Trends in Cell Biology</i> , 2019, 29, 862-875.	3.6	30
42	Platforms for high-throughput screening of Wnt/Frizzled antagonists. <i>Drug Discovery Today</i> , 2012, 17, 1316-1322.	3.2	28
43	Under- and over-water halves of <i>Gyrinidae</i> beetle eyes harbor different corneal nanocoatings providing adaptation to the water and air environments. <i>Scientific Reports</i> , 2014, 4, 6004.	1.6	28
44	Europium-labeled GTP as a general nonradioactive substitute for [ <sup>35</sup> S]GTP $\gamma$ S in high-throughput G protein studies. <i>Analytical Biochemistry</i> , 2010, 397, 202-207.	1.1	27
45	Targeting the Wnt signalling pathway in cancer: prospects and perils. <i>Swiss Medical Weekly</i> , 2019, 149, w20129.	0.8	26
46	Wnt Secretion and Gradient Formation. <i>International Journal of Molecular Sciences</i> , 2013, 14, 5130-5145.	1.8	25
47	Versatility of Turing patterns potentiates rapid evolution in tarsal attachment microstructures of stick and leaf insects (Phasmatodea). <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180281.	1.5	25
48	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
49	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
50	WDR74 induces nuclear $\beta$ -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
51	The Wnt/Frizzled GPCR signaling pathway. <i>Biochemistry (Moscow)</i> , 2010, 75, 1428-1434.	0.7	23
52	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
53	Small Molecule Wnt Pathway Modulators from Natural Sources: History, State of the Art and Perspectives. <i>Cells</i> , 2020, 9, 589.	1.8	23
54	Frizzled Proteins are bona fide G Protein-Coupled Receptors. <i>Nature Precedings</i> , 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. <i>EMBO Journal</i> , 2012, 31, 3384-3397.	3.5	20
56	Microquantification of Cellular and in Vitro F-Actin by Rhodamine Phalloidin Fluorescence Enhancement. <i>Analytical Biochemistry</i> , 1998, 264, 185-190.	1.1	19
57	Multiple Roles of a Trimeric G Protein in <i>Drosophila</i> Cell Polarization. <i>Cell Cycle</i> , 2006, 5, 2464-2472.	1.3	19
58	Local and substrate-specific S-palmitoylation determines subcellular localization of G $\alpha$ . <i>Nature Communications</i> , 2022, 13, 2072.	5.8	19
59	High-throughput targeted screening in triple-negative breast cancer cells identifies Wnt-inhibiting activities in Pacific brittle stars. <i>Scientific Reports</i> , 2017, 7, 11964.	1.6	18
60	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
61	WDR74 modulates melanoma tumorigenesis and metastasis through the RPL5-MDM2-p53 pathway. <i>Oncogene</i> , 2020, 39, 2741-2755.	2.6	17
62	Alternative moth-eye nanostructures: antireflective properties and composition of dimpled corneal nano-coatings in silk-moth ancestors. <i>Journal of Nanobiotechnology</i> , 2017, 15, 61.	4.2	16
63	The Anticancer Drug Discovery Potential of Marine Invertebrates from Russian Pacific. <i>Marine Drugs</i> , 2019, 17, 474.	2.2	16
64	Beyond TNBC: Repositioning of Clofazimine Against a Broad Range of Wnt-Dependent Cancers. <i>Frontiers in Oncology</i> , 2020, 10, 602817.	1.3	16
65	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
66	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
67	G $\alpha$ 12-induced conductin/axin2 condensates inhibit Wnt/ $\beta$ 2-catenin signaling and suppress cancer growth. <i>Nature Communications</i> , 2022, 13, 674.	5.8	15
68	Humanization of <i>Drosophila</i> G $\alpha$ to Model GNAO1 Paediatric Encephalopathies. <i>Biomedicines</i> , 2020, 8, 395.	1.4	14
69	Macropinocytosis requires Gal-3 in a subset of patient-derived glioblastoma stem cells. <i>Communications Biology</i> , 2021, 4, 718.	2.0	14
70	Technologies of directed protein evolution in vivo. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 1207-1214.	2.4	13
71	Origin of order in bionanostructures. <i>RSC Advances</i> , 2015, 5, 63521-63527.	1.7	13
72	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

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73	GÎ±o (<i>GNAO1</i>) encephalopathies: plasma membrane <i>vs</i>. Golgi functions. <i>Oncotarget</i> , 2018, 9, 23846-23847.	0.8	13
74	Unlocking the Wnt pathway: Therapeutic potential of selective targeting FZD7 in cancer. <i>Drug Discovery Today</i> , 2022, 27, 777-792.	3.2	13
75	Antireflective nanocoatings for UV-sensation: the case of predatory owlfly insects. <i>Journal of Nanobiotechnology</i> , 2017, 15, 52.	4.2	12
76	<sc>LDL</sc> receptorâ€related protein <sc>LRP</sc> 6 senses nutrient levels and regulates Hippo signaling. <i>EMBO Reports</i> , 2020, 21, e50103.	2.0	11
77	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
78	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
79	Kermit Interacts with GÎ±o, Vang, and Motor Proteins in <i>Drosophila</i> Planar Cell Polarity. <i>PLoS ONE</i> , 2013, 8, e76885.	1.1	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. <i>European Journal of Medicinal Chemistry</i> , 2021, 222, 113562.	2.6	9
81	Role of the gene <i>Miniature</i> in <i>Drosophila</i> wing maturation. <i>Genesis</i> , 2012, 50, 525-533.	0.8	8
82	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
83	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
84	Arthropod Corneal Nanocoatings: Diversity, Mechanisms, and Functions. <i>Biologically-inspired Systems</i> , 2017, , 29-52.	0.4	7
85	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
86	A Cytotoxic Porphyrin from North Pacific Brittle Star <i>Ophiura sarsii</i> . <i>Marine Drugs</i> , 2021, 19, 11.	2.2	7
87	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
88	Lack of evidence of the interaction of the AÄŸ 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
89	Mining Natural Compounds to Target WNT Signaling: Land and Sea Tales. <i>Handbook of Experimental Pharmacology</i> , 2021, 269, 215-248.	0.9	6
90	Formation of bacteriophage MS2 infectious units in a cell-free translation system. <i>FEBS Letters</i> , 1996, 397, 143-148.	1.3	5

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91	Knockdown of Dehydrodolichyl Diphosphate Synthase in the Drosophila Retina Leads to a Unique Pattern of Retinal Degeneration. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 693967.	1.4	5
92	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
93	NOL7 facilitates melanoma progression and metastasis. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 352.	7.1	5
94	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
95	Bactericidal and Antiviral Bionic Metalized Nanocoatings. <i>Nanomaterials</i> , 2022, 12, 1868.	1.9	5
96	Antagonistic PCP Signaling Pathways in the developing Drosophila eye. <i>Scientific Reports</i> , 2018, 8, 5741.	1.6	4
97	Viral Q $\beta$ 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
98	Phosphoinositide 3-kinase signalling: no lipids. <i>Biochemical Society Transactions</i> , 1999, 27, 629-634.	1.6	3
99	Crystallization and preliminary X-ray diffraction studies of Drosophila melanogaster G $\beta$ -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
100	Lack of evidence of the interaction of the A $\beta$ peptide with the Wnt signaling cascade in Drosophila models of Alzheimer's disease. <i>Molecular Brain</i> , 2014, 7, 81.	1.3	3
101	Mode of interaction of the G $\beta$ 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
102	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
103	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
104	Light Polarization by Biological Nanocoatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23481-23488.	4.0	2
105	Short stature and combined immunodeficiency associated with mutations in RGS10. <i>Science Signaling</i> , 2021, 14, .	1.6	2
106	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
107	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