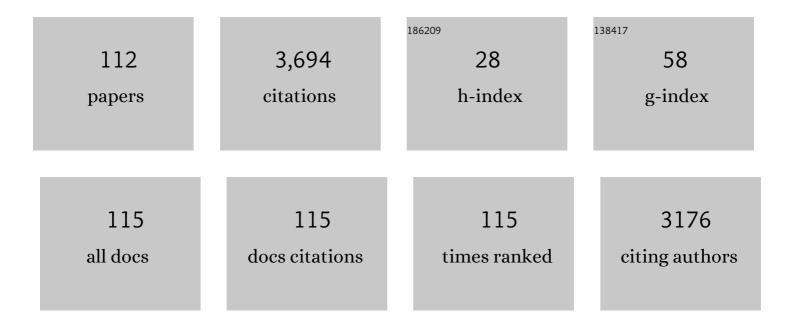
Vitaly Vodyanoy

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8661420/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Noise-induced enhancement of signal transduction across voltage-dependent ion channels. Nature, 1995, 378, 362-364.	13.7	386
2	RGS2 regulates signal transduction in olfactory neurons by attenuating activation of adenylyl cyclase III. Nature, 2001, 409, 1051-1055.	13.7	249
3	Phage display for detection of biological threat agents. Journal of Microbiological Methods, 2003, 53, 253-262.	0.7	236
4	Lytic phage as a specific and selective probe for detection of Staphylococcus aureus—A surface plasmon resonance spectroscopic study. Biosensors and Bioelectronics, 2007, 22, 948-955.	5.3	218
5	Phage as a molecular recognition element in biosensors immobilized by physical adsorption. Biosensors and Bioelectronics, 2007, 22, 986-992.	5.3	176
6	Affinity-selected filamentous bacteriophage as a probe for acoustic wave biodetectors of Salmonella typhimurium. Biosensors and Bioelectronics, 2006, 21, 1434-1442.	5.3	153
7	Rapid and sensitive biosensor for Salmonella. Biosensors and Bioelectronics, 2000, 15, 135-141.	5.3	145
8	Resolution of 90 nm (λ/5) in an optical transmission microscope with an annular condenser. Optics Letters, 2006, 31, 2855.	1.7	110
9	Landscape phage probes for Salmonella typhimurium. Journal of Microbiological Methods, 2005, 63, 55-72.	0.7	104
10	Specific and selective biosensor for Salmonella and its detection in the environment. Journal of Microbiological Methods, 2003, 53, 273-285.	0.7	82
11	Rapid and Sensitive Detection of Salmonella Typhimurium on Eggshells by Using Wireless Biosensors. Journal of Food Protection, 2012, 75, 631-636.	0.8	76
12	Highly sensitive phage-based biosensor for the detection of β-galactosidase. Analytica Chimica Acta, 2007, 589, 166-172.	2.6	62
13	Rapid and sensitive magnetoelastic biosensors for the detection of Salmonella typhimurium in a mixed microbial population. Journal of Microbiological Methods, 2007, 70, 112-118.	0.7	60
14	Amorphous metallic glass biosensors. Intermetallics, 2012, 30, 80-85.	1.8	59
15	Single-channel fluctuations in bimolecular lipid membranes induced by rat olfactory epithelial homogenates. Science, 1983, 220, 717-719.	6.0	56
16	Flash spectroscopic studies of the kinetics of the halorhodopsin photocycle. Biochemistry, 1986, 25, 1465-1470.	1.2	54
17	Exploring the Mechanisms of Electroacupuncture-Induced Analgesia through RNA Sequencing of the Periaqueductal Gray. International Journal of Molecular Sciences, 2018, 19, 2.	1.8	53
18	Functional MRI of the Olfactory System in Conscious Dogs. PLoS ONE, 2014, 9, e86362.	1.1	53

#	Article	IF	CITATIONS
19	Detection of methicillin-resistant Staphylococcus aureus using novel lytic phage-based magnetoelastic biosensors. Sensors and Actuators B: Chemical, 2015, 210, 129-136.	4.0	51
20	Chiral recognition of odorants (+)- and (-)-carvone by phospholipid monolayers. Journal of the American Chemical Society, 1992, 114, 1404-1405.	6.6	47
21	Efficient decomposition of shrimp shell waste using Bacillus cereus and Exiguobacterium acetylicum. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1123-1126.	1.4	47
22	Efficacy of Bacillus probiotics in prevention of antibioticâ€associated diarrhoea: a randomized, doubleâ€blind, placeboâ€controlled clinical trial. JMM Case Reports, 2014, 1, .	1.3	46
23	Enhancement of Odorant-Induced Responses in Olfactory Receptor Neurons by Zinc Nanoparticles. Chemical Senses, 2009, 34, 547-557.	1.1	43
24	Member of the Ampakine class of memory enhancers prolongs the single channel open time of reconstituted AMPA receptors. Synapse, 2001, 40, 154-158.	0.6	42
25	Electroacupuncture Attenuates Visceral Hypersensitivity by Inhibiting JAK2/STAT3 Signaling Pathway in the Descending Pain Modulation System. Frontiers in Neuroscience, 2017, 11, 644.	1.4	34
26	Real-time optical detection of methicillin-resistant Staphylococcus aureus using lytic phage probes. Biosensors and Bioelectronics, 2008, 24, 151-154.	5.3	33
27	Enhancement of Odor-Induced Activity in the Canine Brain by Zinc Nanoparticles: A Functional MRI Study in Fully Unrestrained Conscious Dogs. Chemical Senses, 2016, 41, 53-67.	1.1	31
28	Solvent-free lipid bimolecular membranes of large surface area. Biochimica Et Biophysica Acta - Biomembranes, 1982, 687, 189-194.	1.4	30
29	Preservation of bacteria in natural polymers. Journal of Microbiological Methods, 2009, 78, 189-194.	0.7	30
30	Detection and identification of methicillin resistant and sensitive strains of Staphylococcus aureus using tandem measurements. Journal of Microbiological Methods, 2012, 90, 182-191.	0.7	28
31	Peptide biosensor for recognition of cross-species cell surface markers. Journal of Molecular Recognition, 2002, 15, 197-203.	1.1	25
32	Novel Metal Clusters Isolated from Blood Are Lethal to Cancer Cells. Cells Tissues Organs, 2005, 179, 115-124.	1.3	25
33	Olfactory responses to explosives associated odorants are enhanced by zinc nanoparticles. Talanta, 2012, 88, 730-733.	2.9	24
34	Anterior–posterior dissociation of the default mode network in dogs. Brain Structure and Function, 2015, 220, 1063-1076.	1.2	24
35	Alamethicin adsorption to a planar lipid bilayer. Biophysical Journal, 1988, 53, 649-658.	0.2	23
36	Small odorant molecules affect steady state properties of monolayers. Thin Solid Films, 1989, 180, 1-13.	0.8	23

#	Article	IF	CITATIONS
37	Targeting peptides for microglia identified via phage display. Journal of Neuroimmunology, 2002, 127, 13-21.	1.1	23
38	Bacteriophage biosensors for antibiotic-resistant bacteria. Expert Review of Medical Devices, 2014, 11, 175-186.	1.4	23
39	ATP and GTP are essential for olfactory response. Neuroscience Letters, 1987, 73, 253-258.	1.0	22
40	Interaction of valinomycin and stearic acid in monolayers. Langmuir, 1992, 8, 1984-1987.	1.6	22
41	Zinc nanoparticles interact with olfactory receptor neurons. BioMetals, 2010, 23, 1097-1103.	1.8	22
42	Magnetoelastic biosensor for the detection of Salmonella typhimurium in food products. Sensing and Instrumentation for Food Quality and Safety, 2007, 1, 3-10.	1.5	21
43	Novel methods for storage stability and release of <i>Bacillus</i> spores. Biotechnology Progress, 2008, 24, 1147-1153.	1.3	21
44	FATTY ACID ANILIDES AND THE TOXIC OIL SYNDROME. Lancet, The, 1982, 319, 98-99.	6.3	20
45	Hydrostatic stabilization of solvent-free lipid bimolecular membranes. Journal of Colloid and Interface Science, 1982, 88, 247-257.	5.0	19
46	Recognition of cell-specific binding of phage display derived peptides using an acoustic wave sensor. New Biotechnology, 2002, 18, 269-272.	2.7	19
47	Mitigation of heat stress-related complications by a yeast fermentate product. Journal of Thermal Biology, 2016, 60, 26-32.	1.1	19
48	Effects of heparin on the properties of solubilized and reconstituted rat brain AMPA receptors. Neuroscience Letters, 1996, 217, 179-183.	1.0	18
49	Amphotericin B and Cholesterol in Monolayers and Bilayers. Langmuir, 2003, 19, 858-864.	1.6	18
50	Phage Langmuir monolayers and Langmuir–Blodgett films. Colloids and Surfaces B: Biointerfaces, 2011, 82, 182-189.	2.5	18
51	Primo-Vascular System as Presented by Bong Han Kim. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-17.	0.5	18
52	Heparin modulates the single channel kinetics of reconstituted AMPA receptors from rat brain. Synapse, 1999, 31, 203-209.	0.6	17
53	Thermodynamic characteristics of mixed monolayers of amphotericin B and cholesterol. Journal of Colloid and Interface Science, 2004, 276, 60-67.	5.0	17
54	Characterization of Structural Connectivity of the Default Mode Network in Dogs using Diffusion Tensor Imaging. Scientific Reports, 2016, 6, 36851.	1.6	17

#	Article	IF	CITATIONS
55	Single channel recordings of reconstituted AMPA receptors reveal low and high conductance states. Neuroscience Letters, 1993, 150, 80-84.	1.0	16
56	Structure and function of long-lived olfactory organotypic cultures from postnatal mice. Journal of Neuroscience Research, 2004, 75, 642-653.	1.3	16
57	PEGylation of zinc nanoparticles amplifies their ability to enhance olfactory responses to odorant. PLoS ONE, 2017, 12, e0189273.	1.1	16
58	Phage Fusion Proteins As Bioselective Receptors For Piezoelectric Sensors. ECS Transactions, 2006, 2, 9-25.	0.3	15
59	Oral administration of <i>Bacillus subtilis</i> strain BSB3 can prevent heat stress-related adverse effects in rats. Journal of Applied Microbiology, 2014, 117, 1463-1471.	1.4	15
60	Engineered metal nanoparticles in the sub-nanomolar levels kill cancer cells. International Journal of Nanomedicine, 2016, 11, 1567.	3.3	15
61	Functional Reconstitution of α-Amino-3-Hydroxy-5-Methylisoxazole-4-Propionate (AMPA) Receptors from Rat Brain. Journal of Neurochemistry, 1992, 59, 1979-1982.	2.1	14
62	Designing allosteric peptide ligands targeting a globular protein. Biopolymers, 2007, 85, 38-59.	1.2	14
63	Surface properties of two rabbit lung lamellar body preparations with markedly different fatty acid profiles. Lipids and Lipid Metabolism, 1990, 1047, 284-289.	2.6	12
64	Stearic Acid Assisted Complexation of K+ by Valinomycin in Monolayers. Langmuir, 1994, 10, 1354-1357.	1.6	12
65	Natural biopolymer for preservation of microorganisms during sampling and storage. Journal of Microbiological Methods, 2012, 88, 140-146.	0.7	12
66	Microscopic evaluation of vesicles shed by rat erythrocytes at elevated temperatures. Journal of Thermal Biology, 2013, 38, 487-492.	1.1	12
67	After oxidation, zinc nanoparticles lose their ability to enhance responses to odorants. BioMetals, 2016, 29, 1005-1018.	1.8	12
68	Large-conductance cholesterol–amphotericin B channels in reconstituted lipid bilayers. Biosensors and Bioelectronics, 2007, 22, 1359-1367.	5.3	11
69	Odorant Response Kinetics from Cultured Mouse Olfactory Epithelium at Different Ages in vitro. Cells Tissues Organs, 2010, 192, 361-373.	1.3	11
70	Biosensor for Detection of Antibiotic Resistant Staphylococcus Bacteria. Journal of Visualized Experiments, 2013, , e50474.	0.2	11
71	Electroacupuncture intervention of visceral hypersensitivity is involved in PAR-2-activation and CGRP-release in the spinal cord. Scientific Reports, 2020, 10, 11188.	1.6	11
72	Inhibition and enhancement of odorant-induced cAMP accumulation in rat olfactory cilia by antibodies directed against Gαs/olf- and Gαi-protein subunits. FEBS Letters, 1998, 426, 377-380.	1.3	10

4

#	Article	IF	CITATIONS
73	Condensing and Expanding Effects of the Odorants (+)- and (â^')-Carvone on Phospholipid Monolayers. Langmuir, 1998, 14, 679-682.	1.6	10
74	Solvent effects on amphotericin B monolayers. Journal of Colloid and Interface Science, 2004, 269, 499-502.	5.0	10
75	Analytical performance and characterization of antibody immobilized magnetoelastic biosensors. Sensing and Instrumentation for Food Quality and Safety, 2008, 2, 27-33.	1.5	10
76	Thermodynamic evaluation of vesicles shed by erythrocytes at elevated temperatures. Colloids and Surfaces B: Biointerfaces, 2015, 133, 231-238.	2.5	10
77	High Resolution Light Microscopy of Live Cells. Microscopy Today, 2005, 13, 26-29.	0.2	9
78	Zinc Nanoparticles Enhance Brain Connectivity in the Canine Olfactory Network: Evidence From an fMRI Study in Unrestrained Awake Dogs. Frontiers in Veterinary Science, 2018, 5, 127.	0.9	9
79	Amphotericin B channels in phospholipid membrane-coated nanoporous silicon surfaces: Implications for photovoltaic driving of ions across membranes. Biosensors and Bioelectronics, 2007, 22, 1605-1611.	5.3	8
80	Microscopic evaluation of vesicles shed by erythrocytes at elevated temperatures. Microscopy Research and Technique, 2013, 76, 1163-1170.	1.2	8
81	Cyclic AMP-sensitive ion channels in olfactory receptor cells. Chemical Senses, 1991, 16, 175-180.	1.1	7
82	Neural network architectures for artificial noses. , 2008, , .		7
83	Technical Challenges in Current Primo Vascular System Research and Potential Solutions. JAMS Journal of Acupuncture and Meridian Studies, 2016, 9, 297-306.	0.3	7
84	Functional Reconstitution of Rat Striatal Dopamine Agonist Receptors into Artificial Lipid Bimolecular Membranes. Biophysical Journal, 1984, 45, 22-23.	0.2	6
85	Biopolymers for sample collection, protection, and preservation. Applied Microbiology and Biotechnology, 2015, 99, 5397-5406.	1.7	6
86	Current-voltage characteristics of planar lipid membranes with attached Halobacterium cell-envelope vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1986, 858, 92-98.	1.4	5
87	Prevention of Heat Stress Adverse Effects in Rats by Bacillus subtilis Strain. Journal of Visualized Experiments, 2016, , .	0.2	5
88	Sanal-Cell Cycle and Primo Vascular System: Regeneration via Sanals. Advances in Experimental Medicine and Biology, 2018, 1072, 413-418.	0.8	5
89	Functional reconstitution of receptors in artificial lipid bilayers. Neuroscience Letters, 1987, 81, 133-138.	1.0	4

90 High-resolution light microscopy of nanoforms. , 2007, , .

#	Article	IF	CITATIONS
91	Endogenous zinc nanoparticles in the rat olfactory epithelium are functionally significant. Scientific Reports, 2020, 10, 18435.	1.6	4
92	Hemmule: A Novel Structure with the Properties of the Stem Cell Niche. International Journal of Molecular Sciences, 2020, 21, 539.	1.8	4
93	PHOTOCHEMICAL BEHAVIOR OF BACTERIORHODOPSIN IMMOBILIZED IN NaCl PELLETS. Photochemistry and Photobiology, 1985, 42, 413-421.	1.3	3
94	Acoustic Wave (TSM) Biosensors: Weighing Bacteria. , 2008, , 255-298.		3
95	Demonstration of Bonghan Corpuscles and Ducts in Rabbits and Rats by Korean Scientists. JAMS Journal of Acupuncture and Meridian Studies, 2009, 2, 169.	0.3	3
96	Furosemide blocks the apomorphine-elicited Cl-channel activity of rat striatal dopamine receptors functionally reconstituted into bimolecular lipid membrane. Neuroscience Letters, 1985, 62, 103-106.	1.0	2
97	Rapid detection of Salmonella typhimurium on fresh spinach leaves using phage-immobilized magnetoelastic biosensors. , 2011, , .		2
98	Characterization of olfactory-enhancing zinc metal nanoparticles. , 2015, , .		2
99	The Role of Endogenous Metal Nanoparticles in Biological Systems. Biomolecules, 2021, 11, 1574.	1.8	2
100	Molecular Sensor Based on Olfactory Transduction. , 1989, , 317-328.		2
101	The detection of Salmonella typhimurium on shell eggs using a phage-based biosensor. Proceedings of SPIE, 2011, , .	0.8	1
102	Nature-inspired magnetoelastic biosentinels for the detection of pathogenic bacteria in stagnant liquids. Proceedings of SPIE, 2015, , .	0.8	1
103	Prebiotics and Probiotics Maintain the Intestinal Barrier Function. FASEB Journal, 2019, 33, 589.7.	0.2	1
104	Characterization of Three Foodborne Bacteria using Hyperspectral Microscopy. FASEB Journal, 2019, 33, lb299.	0.2	1
105	Primo Vascular Node in the Bone Marrow and Longevity. JAMS Journal of Acupuncture and Meridian Studies, 2022, 15, 12-24.	0.3	1
106	Construction of Volume Meshes from Computed Tomography Data. , 2005, 2005, 5168-71.		0
107	Phage Langmuir-Blodgett films for biosensing applications. , 2010, , .		0
108	Passive oil collection device. Environmental Earth Sciences, 2013, 70, 1753-1763.	1.3	0

#	Article	IF	CITATIONS
109	Lytic Phage in Biosensing. ECS Meeting Abstracts, 2013, , .	0.0	Ο
110	The Design of Molecular Switches for Biosensors. International Journal of Biosensors & Bioelectronics, 2017, 2, .	0.2	0
111	Isolation and Function of Endogenous Zinc Nanoparticles in the Olfactory Epithelium. FASEB Journal, 2019, 33, 526.3.	0.2	0
112	A Model of Potassiumâ€Assisted Olfactory Sensory Neuron Response to Odorant. FASEB Journal, 2022, 36, .	0.2	0