Vitaly Vodyanoy

List of Publications by Year
in descending order

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112 papers	3,694 citations	186265 28 h-index	138484 58 g-index
115 all docs	115 docs citations	115 times ranked	3176 citing authors

#	Article	IF	Citations
1	Primo Vascular Node in the Bone Marrow and Longevity. JAMS Journal of Acupuncture and Meridian Studies, 2022, 15, 12-24.	0.7	1
2	A Model of Potassiumâ€Assisted Olfactory Sensory Neuron Response to Odorant. FASEB Journal, 2022, 36, .	0.5	0
3	The Role of Endogenous Metal Nanoparticles in Biological Systems. Biomolecules, 2021, 11, 1574.	4.0	2
4	Endogenous zinc nanoparticles in the rat olfactory epithelium are functionally significant. Scientific Reports, 2020, 10, 18435.	3.3	4
5	Electroacupuncture intervention of visceral hypersensitivity is involved in PAR-2-activation and CGRP-release in the spinal cord. Scientific Reports, 2020, 10, 11188.	3.3	11
6	Hemmule: A Novel Structure with the Properties of the Stem Cell Niche. International Journal of Molecular Sciences, 2020, 21, 539.	4.1	4
7	Prebiotics and Probiotics Maintain the Intestinal Barrier Function. FASEB Journal, 2019, 33, 589.7.	0.5	1
8	Characterization of Three Foodborne Bacteria using Hyperspectral Microscopy. FASEB Journal, 2019, 33, lb299.	0.5	1
9	Isolation and Function of Endogenous Zinc Nanoparticles in the Olfactory Epithelium. FASEB Journal, 2019, 33, 526.3.	0.5	0
10	Sanal-Cell Cycle and Primo Vascular System: Regeneration via Sanals. Advances in Experimental Medicine and Biology, 2018, 1072, 413-418.	1.6	5
11	Exploring the Mechanisms of Electroacupuncture-Induced Analgesia through RNA Sequencing of the Periaqueductal Gray. International Journal of Molecular Sciences, 2018, 19, 2.	4.1	53
12	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.	2.2	9
13	Electroacupuncture Attenuates Visceral Hypersensitivity by Inhibiting JAK2/STAT3 Signaling Pathway in the Descending Pain Modulation System. Frontiers in Neuroscience, 2017, 11, 644.	2.8	34
14	PEGylation of zinc nanoparticles amplifies their ability to enhance olfactory responses to odorant. PLoS ONE, 2017, 12, e0189273.	2.5	16
15	The Design of Molecular Switches for Biosensors. International Journal of Biosensors & Bioelectronics, 2017, 2, .	0.2	0
16	Engineered metal nanoparticles in the sub-nanomolar levels kill cancer cells. International Journal of Nanomedicine, 2016, 11, 1567.	6.7	15
17	After oxidation, zinc nanoparticles lose their ability to enhance responses to odorants. BioMetals, 2016, 29, 1005-1018.	4.1	12
18	Technical Challenges in Current Primo Vascular System Research and Potential Solutions. JAMS Journal of Acupuncture and Meridian Studies, 2016, 9, 297-306.	0.7	7

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19	Characterization of Structural Connectivity of the Default Mode Network in Dogs using Diffusion Tensor Imaging. Scientific Reports, 2016, 6, 36851.	3.3	17
20	Prevention of Heat Stress Adverse Effects in Rats by Bacillus subtilis Strain. Journal of Visualized Experiments, 2016, , .	0.3	5
21	Mitigation of heat stress-related complications by a yeast fermentate product. Journal of Thermal Biology, 2016, 60, 26-32.	2.5	19
22	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.	2.0	31
23	Primo-Vascular System as Presented by Bong Han Kim. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-17.	1.2	18
24	Biopolymers for sample collection, protection, and preservation. Applied Microbiology and Biotechnology, 2015, 99, 5397-5406.	3.6	6
25	Characterization of olfactory-enhancing zinc metal nanoparticles. , 2015, , .		2
26	Detection of methicillin-resistant Staphylococcus aureus using novel lytic phage-based magnetoelastic biosensors. Sensors and Actuators B: Chemical, 2015, 210, 129-136.	7.8	51
27	Thermodynamic evaluation of vesicles shed by erythrocytes at elevated temperatures. Colloids and Surfaces B: Biointerfaces, 2015, 133, 231-238.	5.0	10
28	Nature-inspired magnetoelastic biosentinels for the detection of pathogenic bacteria in stagnant liquids. Proceedings of SPIE, 2015, , .	0.8	1
29	Anteriorâ€“posterior dissociation of the default mode network in dogs. Brain Structure and Function, 2015, 220, 1063-1076.	2.3	24
30	Oral administration of Bacillus subtilis strain BSB3 can prevent heat stress-related adverse effects in rats. Journal of Applied Microbiology, 2014, 117, 1463-1471.	3.1	15
31	Bacteriophage biosensors for antibiotic-resistant bacteria. Expert Review of Medical Devices, 2014, 11, 175-186.	2.8	23
32	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
33	Functional MRI of the Olfactory System in Conscious Dogs. PLoS ONE, 2014, 9, e86362.	2.5	53
34	Microscopic evaluation of vesicles shed by rat erythrocytes at elevated temperatures. Journal of Thermal Biology, 2013, 38, 487-492.	2.5	12
35	Passive oil collection device. Environmental Earth Sciences, 2013, 70, 1753-1763.	2.7	0
36	Microscopic evaluation of vesicles shed by erythrocytes at elevated temperatures. Microscopy Research and Technique, 2013, 76, 1163-1170.	2.2	8

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37	Biosensor for Detection of Antibiotic Resistant Staphylococcus Bacteria. Journal of Visualized Experiments, 2013, , e50474.	0.3	11
38	Lytic Phage in Biosensing. ECS Meeting Abstracts, 2013, , .	0.0	0
39	Rapid and Sensitive Detection of Salmonella Typhimurium on Eggshells by Using Wireless Biosensors. Journal of Food Protection, 2012, 75, 631-636.	1.7	76
40	Amorphous metallic glass biosensors. Intermetallics, 2012, 30, 80-85.	3.9	59
41	Olfactory responses to explosives associated odorants are enhanced by zinc nanoparticles. Talanta, 2012, 88, 730-733.	5.5	24
42	Natural biopolymer for preservation of microorganisms during sampling and storage. Journal of Microbiological Methods, 2012, 88, 140-146.	1.6	12
43	Detection and identification of methicillin resistant and sensitive strains of Staphylococcus aureus using tandem measurements. Journal of Microbiological Methods, 2012, 90, 182-191.	1.6	28
44	The detection of Salmonella typhimurium on shell eggs using a phage-based biosensor. Proceedings of SPIE, 2011, , .	0.8	1
45	Rapid detection of Salmonella typhimurium on fresh spinach leaves using phage-immobilized magnetoelastic biosensors. , 2011, , .		2
46	Phage Langmuir monolayers and Langmuirâ€“Blodgett films. Colloids and Surfaces B: Biointerfaces, 2011, 82, 182-189.	5.0	18
47	Zinc nanoparticles interact with olfactory receptor neurons. BioMetals, 2010, 23, 1097-1103.	4.1	22
48	Odorant Response Kinetics from Cultured Mouse Olfactory Epithelium at Different Ages in vitro. Cells Tissues Organs, 2010, 192, 361-373.	2.3	11
49	Phage Langmuir-Blodgett films for biosensing applications. , 2010, , .		0
50	Enhancement of Odorant-Induced Responses in Olfactory Receptor Neurons by Zinc Nanoparticles. Chemical Senses, 2009, 34, 547-557.	2.0	43
51	Efficient decomposition of shrimp shell waste using Bacillus cereus and Exiguobacterium acetylicum. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1123-1126.	3.0	47
52	Preservation of bacteria in natural polymers. Journal of Microbiological Methods, 2009, 78, 189-194.	1.6	30
53	Demonstration of Bonghan Corpuscles and Ducts in Rabbits and Rats by Korean Scientists. JAMS Journal of Acupuncture and Meridian Studies, 2009, 2, 169.	0.7	3
54	Analytical performance and characterization of antibody immobilized magnetoelastic biosensors. Sensing and Instrumentation for Food Quality and Safety, 2008, 2, 27-33.	1.5	10

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55	Novel methods for storage stability and release of Bacillus spores. Biotechnology Progress, 2008, 24, 1147-1153.	2.6	21
56	Real-time optical detection of methicillin-resistant Staphylococcus aureus using lytic phage probes. Biosensors and Bioelectronics, 2008, 24, 151-154.	10.1	33
57	Acoustic Wave (TSM) Biosensors: Weighing Bacteria. , 2008, , 255-298.		3
58	Neural network architectures for artificial noses. , 2008, , .		7
59	High-resolution light microscopy of nanoforms. , 2007, , .		4
60	Rapid and sensitive magnetoelastic biosensors for the detection of Salmonella typhimurium in a mixed microbial population. Journal of Microbiological Methods, 2007, 70, 112-118.	1.6	60
61	Designing allosteric peptide ligands targeting a globular protein. Biopolymers, 2007, 85, 38-59.	2.4	14
62	Lytic phage as a specific and selective probe for detection of Staphylococcus aureusâ€"A surface plasmon resonance spectroscopic study. Biosensors and Bioelectronics, 2007, 22, 948-955.	10.1	218
63	Large-conductance cholesterolâ€"amphotericin B channels in reconstituted lipid bilayers. Biosensors and Bioelectronics, 2007, 22, 1359-1367.	10.1	11
64	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.	10.1	8
65	Highly sensitive phage-based biosensor for the detection of Î²-galactosidase. Analytica Chimica Acta, 2007, 589, 166-172.	5.4	62
66	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
67	Phage as a molecular recognition element in biosensors immobilized by physical adsorption. Biosensors and Bioelectronics, 2007, 22, 986-992.	10.1	176
68	Resolution of 90 nm (Î»/5) in an optical transmission microscope with an annular condenser. Optics Letters, 2006, 31, 2855.	3.3	110
69	Affinity-selected filamentous bacteriophage as a probe for acoustic wave biodetectors of Salmonella typhimurium. Biosensors and Bioelectronics, 2006, 21, 1434-1442.	10.1	153
70	Phage Fusion Proteins As Bioselective Receptors For Piezoelectric Sensors. ECS Transactions, 2006, 2, 9-25.	0.5	15
71	High Resolution Light Microscopy of Live Cells. Microscopy Today, 2005, 13, 26-29.	0.3	9
72	Construction of Volume Meshes from Computed Tomography Data. , 2005, 2005, 5168-71.		0

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73	Novel Metal Clusters Isolated from Blood Are Lethal to Cancer Cells. Cells Tissues Organs, 2005, 179, 115-124.	2.3	25
74	Landscape phage probes for Salmonella typhimurium. Journal of Microbiological Methods, 2005, 63, 55-72.	1.6	104
75	Thermodynamic characteristics of mixed monolayers of amphotericin B and cholesterol. Journal of Colloid and Interface Science, 2004, 276, 60-67.	9.4	17
76	Structure and function of longâ€lived olfactory organotypic cultures from postnatal mice. Journal of Neuroscience Research, 2004, 75, 642-653.	2.9	16
77	Solvent effects on amphotericin B monolayers. Journal of Colloid and Interface Science, 2004, 269, 499-502.	9.4	10
78	Amphotericin B and Cholesterol in Monolayers and Bilayers. Langmuir, 2003, 19, 858-864.	3.5	18
79	Phage display for detection of biological threat agents. Journal of Microbiological Methods, 2003, 53, 253-262.	1.6	236
80	Specific and selective biosensor for Salmonella and its detection in the environment. Journal of Microbiological Methods, 2003, 53, 273-285.	1.6	82
81	Targeting peptides for microglia identified via phage display. Journal of Neuroimmunology, 2002, 127, 13-21.	2.3	23
82	Peptide biosensor for recognition of cross-species cell surface markers. Journal of Molecular Recognition, 2002, 15, 197-203.	2.1	25
83	Recognition of cell-specific binding of phage display derived peptides using an acoustic wave sensor. New Biotechnology, 2002, 18, 269-272.	2.7	19
84	Member of the Ampakine class of memory enhancers prolongs the single channel open time of reconstituted AMPA receptors. Synapse, 2001, 40, 154-158.	1.2	42
85	RGS2 regulates signal transduction in olfactory neurons by attenuating activation of adenylyl cyclase III. Nature, 2001, 409, 1051-1055.	27.8	249
86	Rapid and sensitive biosensor for Salmonella. Biosensors and Bioelectronics, 2000, 15, 135-141.	10.1	145
87	Heparin modulates the single channel kinetics of reconstituted AMPA receptors from rat brain. Synapse, 1999, 31, 203-209.	1.2	17
88	Inhibition and enhancement of odorant-induced cAMP accumulation in rat olfactory cilia by antibodies directed against Gî±s/olf- and Gî±i-protein subunits. FEBS Letters, 1998, 426, 377-380.	2.8	10
89	Condensing and Expanding Effects of the Odorants (+)- and (â^')-Carvone on Phospholipid Monolayers. Langmuir, 1998, 14, 679-682.	3.5	10
90	Effects of heparin on the properties of solubilized and reconstituted rat brain AMPA receptors. Neuroscience Letters, 1996, 217, 179-183.	2.1	18

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91	Noise-induced enhancement of signal transduction across voltage-dependent ion channels. Nature, 1995, 378, 362-364.	27.8	386
92	Stearic Acid Assisted Complexation of K+ by Valinomycin in Monolayers. Langmuir, 1994, 10, 1354-1357.	3.5	12
93	Single channel recordings of reconstituted AMPA receptors reveal low and high conductance states. Neuroscience Letters, 1993, 150, 80-84.	2.1	16
94	Chiral recognition of odorants (+)- and (-)-carvone by phospholipid monolayers. Journal of the American Chemical Society, 1992, 114, 1404-1405.	13.7	47
95	Interaction of valinomycin and stearic acid in monolayers. Langmuir, 1992, 8, 1984-1987.	3.5	22
96	Functional Reconstitution of Î±-Amino-3-Hydroxy-5-Methylisoxazole-4-Propionate (AMPA) Receptors from Rat Brain. Journal of Neurochemistry, 1992, 59, 1979-1982.	3.9	14
97	Cyclic AMP-sensitive ion channels in olfactory receptor cells. Chemical Senses, 1991, 16, 175-180.	2.0	7
98	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
99	Small odorant molecules affect steady state properties of monolayers. Thin Solid Films, 1989, 180, 1-13.	1.8	23
100	Molecular Sensor Based on Olfactory Transduction. , 1989, , 317-328.		2
101	Alamethicin adsorption to a planar lipid bilayer. Biophysical Journal, 1988, 53, 649-658.	0.5	23
102	ATP and GTP are essential for olfactory response. Neuroscience Letters, 1987, 73, 253-258.	2.1	22
103	Functional reconstitution of receptors in artificial lipid bilayers. Neuroscience Letters, 1987, 81, 133-138.	2.1	4
104	Current-voltage characteristics of planar lipid membranes with attached Halobacterium cell-envelope vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1986, 858, 92-98.	2.6	5
105	Flash spectroscopic studies of the kinetics of the halorhodopsin photocycle. Biochemistry, 1986, 25, 1465-1470.	2.5	54
106	PHOTOCHEMICAL BEHAVIOR OF BACTERIORHODOPSIN IMMOBILIZED IN NaCl PELLETS. Photochemistry and Photobiology, 1985, 42, 413-421.	2.5	3
107	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.	2.1	2
108	Functional Reconstitution of Rat Striatal Dopamine Agonist Receptors into Artificial Lipid Bimolecular Membranes. Biophysical Journal, 1984, 45, 22-23.	0.5	6

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109	Single-channel fluctuations in bimolecular lipid membranes induced by rat olfactory epithelial homogenates. Science, 1983, 220, 717-719.	12.6	56
110	Solvent-free lipid bimolecular membranes of large surface area. Biochimica Et Biophysica Acta - Biomembranes, 1982, 687, 189-194.	2.6	30
111	FATTY ACID ANILIDES AND THE TOXIC OIL SYNDROME. Lancet, The, 1982, 319, 98-99.	13.7	20
112	Hydrostatic stabilization of solvent-free lipid bimolecular membranes. Journal of Colloid and Interface Science, 1982, 88, 247-257.	9.4	19